WEBTRIGON

We are Digitizing the world.

Creating products and adding value for businesses by combining the best of ideas, designs, user experience, development & Marketing.

We are Inventive misfits!

Each and every one of us does at least one thing that would get us thrown out of a cookie-cutter corporate job. Flagrance, mockery, unconventional working processes, you name it. Normal people tend to do normal things, and we need abnormal people to build you something magnificent.

Shashank Nagesh
CEO

Adwaith Rao
CTO

It all started when Shashank & Adwaith (Co-founders) met first in their Engineering College. Both had complementary skills, similar goals, and identical values. They decided to work together to bring about a transhuman society - to move the entire human race towards higher intelligence, greater value, and maximum fun.

Webtrigon came to life as a fundraiser based project for the future goals of these founders. The birth of the company has led to creating high quality design and codebases for several devices, along with a trusted network of competent clients (at least the ones that stick around!).
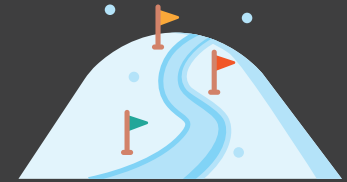
Our Mission

To fashion modern UI & UX with high-quality codebases, and marketing it to the right masses with actionable materials resulting in magnetic leads.

-WEBTRIGON
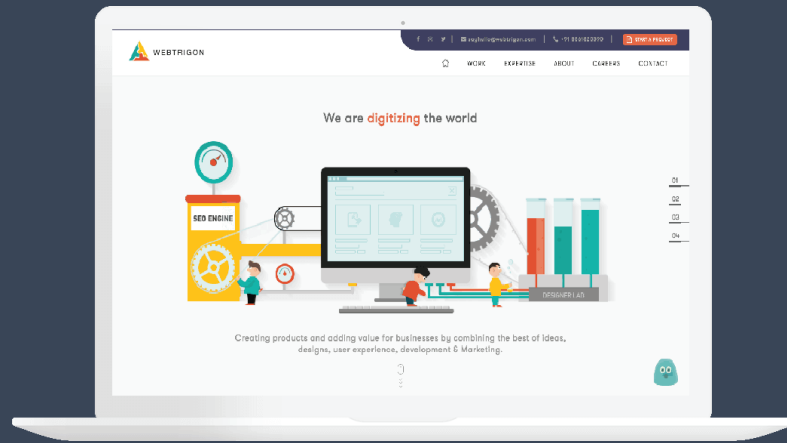
1. WEBTRIGON

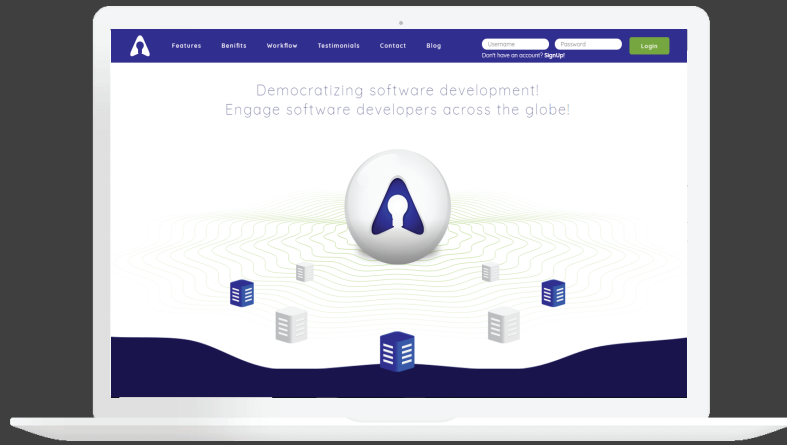**Technologies used:**

Python, Django, React, GSAP, Memcached

Concept focus:

Lightweight, fast, animated, data-driven.

URL: https://webtrigon.com

Showcasing ourselves: This is the part of our website that is built for marketing and it's a featherweight website. Especially the landing page was built to be extremely light and fast. To accommodate for this level of speed, we haven't used any frameworks that could slow down the initial rendering time. The initial load time is further helped by the fact that the django templates which are served are backed by a Memcached backend, which keeps the static pages in-memory for immediate serving.

After the initial render is done, and the first paint of the page is complete, we use GSAP on SVG to animate the upfold. This is used to underline the intricate details we like to weave into all of our designs, and you can witness the same theme throughout the website – we try to achieve the best User Experience by making the entire process seamless and easy to walk through, but we also include lots of User Interface elements to subtly guide the user's impressions and set the theme for our web app.

Managing internals: The internal pages are (currently) for employees only – this is where all the work gets accepted, estimated, reported, and analyzed. Since this data oriented, a framework like React is best suited. All the work that people are doing are being tracked by this platform, and helps us better analyze the company's performance. We use Monte-Carlo simulations for helping with estimation needs, and we also use Machine Learning classification algorithms to improve the predictions for our product shipping dates.

URL: https://aidoos.com

2. AIDOOS

◈ In Production

Technologies used:

Django, Django Rest framework, Angular, NLTK, CRON

Concept focus:

Integration with multiple task management platforms, Payment system, Natural language processing and Bayesian classification, notification system.

This is a rapid task management platform to connect Subject Matter Experts to mid-size and large organizations. These organizations all have set patterns in their processes, and there are several ERPs in the market that fit the needs of these organizations.

Given how complex these ERPs are, however, there's a secondary market of engineers who are experts in the usage of these ERPs and are willing to lend their expertise on a freelance basis. The webapp we've built is to connect this secondary market to the organizations, who can make use of these experts.

Organizations can sign up and publish tasks on this platform that they want completed. These tasks are linked to a technology or ERP. This application allows the organizations to synchronize and integrate with other platforms, which we do by integrating their user info, and integrating their APIs into our existing system.

When a particular task has been created, the task is classified into one of multiple predefined categories using Naive Bayes classification in Machine Learning. The algorithm can be refined by improving the training set in the application. This is used to predict the amount of effort it would take to complete this task.

The notification system is also linked to SMS, email, and (provisionally) WhatsApp, so that any SMEs who are experts in this technology or ERP can get notified about the platform. The progress is reported to organizations, and cron jobs are used to periodically check the status of the tasks and notify the SME if they are behind schedule.

Once the tasks have been completed, the platform will mediate the exchange of in-platform currency between the organization and SME. Organizations can purchase credits in their platform, and SMEs can cash out credits to their bank account.

URL: **https://marginz.io**
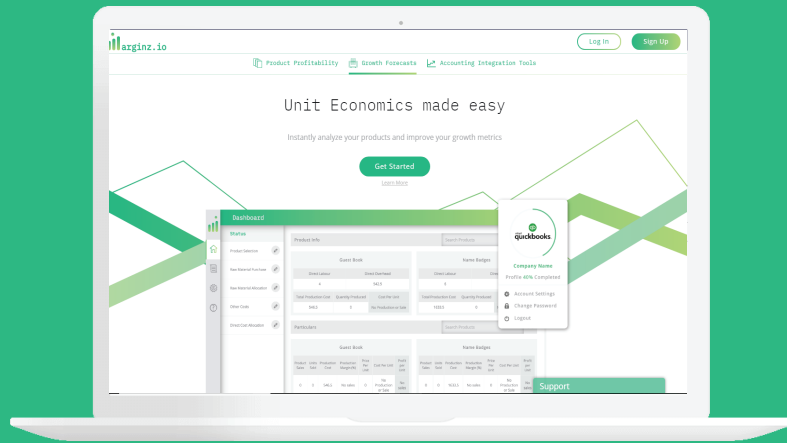
3. MARGINZ

◇ In Production

Technologies used:

Python, Django, Django Rest Framework, Selenium

Concept focus:

API consumption, Multiple account integrations, Test-driven development, Data presentation

This is a financial application that helps startups to help analyze and quantify their finances, and gives suggestions on when, where, and how to optimize their processes, and which parts of their business to focus on.

Since this is a financial application, it's extremely important to ensure that the logic for this is bulletproof, since any mistakes in the logic could disrupt our client's workflow. Use-cases like these are prime candidates for test driven development. We used Python's selenium bindings for functional testing.

Most financial apps on the market today have antiquated UIs and contrived presentation of data – that's what makes it so hard to use. The focus of this app was to stand out from that crowd, since startup founders have enough on their plate without having to worry about learning to use a complicated apps that present data in its own terms, rather than in terms that a user would find easy to understand.

This application integrates with other applications like QuickBooks to get their business data. It then integrates it with its own platform, consuming

the QuickBooks APIs, and runs its own business logic and algorithms to make predictions out of that data. The user also enters data specific to their needs, and the platform will run simulations for them accordingly.

After the data is consumed, and the analysis on it completed, the user is presented data in a clear-cut manner. It gives product highlights, how it's faring in the market, and other manufacture and overhead related information. We've also steered away from any restrictive frameworks until the system architecture becomes more stable.
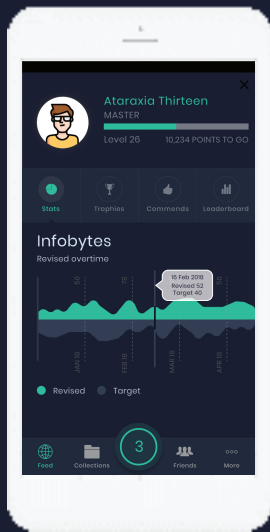
4. ANAMNESIS

🖥 **Under Development**

Technologies used:

Django, Django Rest framework, Scikit-learn, Ionic, Angular, Chartist

Concept focus:

Information retainment, arrested forgetting, memory organization, pluggability, social networking, memory analysis and tracking

This is a hybrid cross-platform mobile application built for helping us better remember the things important to us. In the information age, we are all awash with a large amount of information, which makes it difficult to keep track of what is important and relevant. This app helps us keep track of, categorize, and sustainably remember the things that are important to us.
We use Glicko's improved rating algorithm to rate what is important for us to remember, and strengthen the recollection accordingly. We also use Ebbinghaus's forgetting curve as a base and run specialized algorithms of our own to help the user remember the memories better by reminding them of the information at precisely calculated intervals. (We use machine learning to find patterns in their memory retainment to help with this)

The data that we use is also available to the users, as is statistics on how well they are doing, and how they could do better. We use the chartist module to represent this data in a variety of ways.

We also built a social media around this core, so that any consumable data can be shared between friends and released on a feed for others to add to their library.

The most important aspect of this, however, is its pluggability, which lets any content creator on the internet plug in our application on their own platform. We do this by providing embeddable webpages into other platforms, and APIs which can conver this platform's information into a channel feed on Anamnesis itself. This allows these content creators to make content that will stay in-memory, and stay actionable for much longer than otherwise.
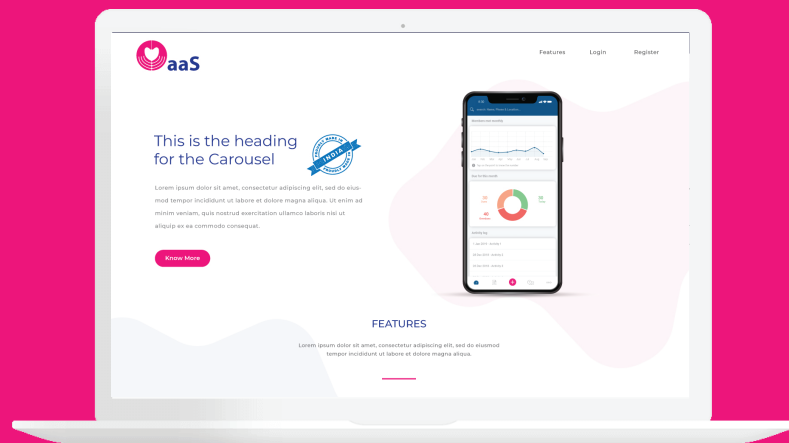
5. OAAS

🚀 In Beta

Technologies used:

Ionic, React, Redux, Django

Concept focus:

Scalability, customizability, report and auditing, offline access

URL: https://beta.oaasapp.org

This is an application that is delivered as a service for any outreach-based social organizations (where the social organization reaches out to assist under-privileged members of a society). This is used to store an organization's hierarchy, collect information on the members it helps, and store the blueprint of the organization's outreach programs. The app is built not only to be scaleable, but also translatable into the local language, since the organizations that use it may be international. Any organization can customize its own languages and translations (we cannot use internationalization in this case, since there is a domain-specific language for each organization).

Since this product is delivered as a service, it is also highly customizable. The organization can customize the member data, as well as the program workflow. It allows for the needs of any organization, as long as it is an Outreach based organization. All these custom fields are also available in a report format for the organization. The product is also audited and monitored constantly, since any of the organizations can troubleshoot for assistance, and the support members should have a trace of the records to best help the organizations in need.

Another highlight of the app is its ease-of-use and the ability to work offline, especially in the mobile app. The mobile app is either supplementary, or simply a convenience to the Outreach worker using them. Therefore, it is built from the ground-up to be unintrusive. Also, the Outreach workers may have to work in extremely remote areas with limited or no internet, and so the app must remain fully functional offline.
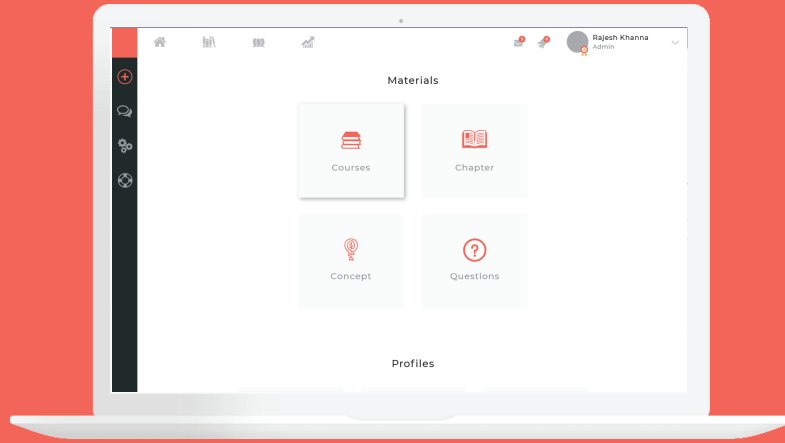
6. LMS

Technologies used:

Python, Django, WebGL, Unity

Concept focus:

Visualization (VR), Immersion, Monte Carlo analysis, reports

This is a learning management system built with two goals in mind: 1) teaching the underlying principles of a concept, rather than getting students to memorize facts, and 2) having these concepts readily available in memory. To achieve 1), we use low-stakes quizzing, where a student is asked a lot of questions which they need to answer (most often from a list of choices), which helps them understand what is common between these questions. Each revision session is taken as a Monte Carlo event, and the learner's learning progress is updated based on the analysis.

To achieve 2), we make this content pluggable into "Anamnesis" (an application we've built, that's also in the case study), which helps via spaced repetition. But this takes it one step further, where along with spaced repetition, we also use the method of loci. We create a "mind palace" in VR, with concepts placed in ways that make sense to the learner (such that you cannot go to a room in the palace without walking past all its pre-requisite knowledge). This will ensure not only that the knowledge is readily available at the fingertips of the user (since the method of loci is a very good mnemonic device), it can

also make sure that you know all the available pre-requisites before you handle a concept.

We also deliver frequent reports to the learner so that they can track their progress. This measures their mastery in their chosen subjects, their recollection levels of each, and can also advise them on what to study next based on their chosen goals.

WHAT WE DO?

Creative Buildout

Innovative designs and intriguing content drive people to a product. They simply like it, without even knowing why. This is precisely what we provide, helping your customers maintain a connected relationship with you.

Services

- App Designing
- Logo Designing
- Brochure Designing
- Branding
- Animation

- Visual Effect
- 3D Modeling
- Film Making
- Photography
- Game Designing

WHAT WE DO?

Development

We create the best responsive websites that keep the latest design trends in mind, as well as cutting edge technology that would be a good fit for your business case. You will also be taken through and engaged in every step of the process, so the site is built exactly the way you want.

Tech Stack

- HTML5/CSS3/SASS
- Angular
- React
- ArangoDB
- Ionic
- Django/Python
- IoT (using Raspberry Pi)

- Electron
- Firebase
- Node.js
- AWS
- Apache
- Nginx/Gunicorn
- AR/VR (using Unity/Unreal, or three.js)

WHAT WE DO?

Digital Marketing

This is a field in constant flux where today's techniques may be tomorrow's garbage. To counter this, we provide up-to-date, targeted and measurable marketing to your products. This will keep you on the competetive track.

Services

- SEO
- SMO
- Email Marketing
- Content Marketing
- Data Mining

- Google Analytics
- Link Building
- PPC
- Video Marketing
- Lead Generation

CONTACT US

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We are Always here to help.

We are here not only to build best products but to give a clear understanding of our process and complexities to our clients. Feel free to reach out to us anytime.

-WEBTRIGON