

Andrew Gundersen

Consultant with Engineering, Design and Entrepreneurial Experience

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WORK EXPERIENCE

Consultant - Accenture Technology

June 2021 - Present, New York, NY

- Driving the design and development of a web platform with a pixel perfect UI that delivers novel data visualizations and insights at a lower cost to clients.
 - Created a sleek, intuitive, and highly contextual UI using Typescript, React, CSS, and Figma, providing a clear, stress-free snapshot of a client's organization.
 - Collaborated with designers and engineers to create a custom UI component library, giving the web app a unique appearance and reducing technical debt.
 - Revamped a global bank's consumer banking website by refreshing the UI and simplifying the core API, improving ease of use and reliability.
 - Created the Account Summary page of the website using Angular and Node.js, allowing customers to view and manage their bank accounts all in one place.
 - Led a refactoring effort that boosted story point throughput by 30% and reduced loading times by implementing server-side rendering using React and Next.js.
 - Hosted a seminar on the power of simplicity and vertical integration in software engineering which included a live demo of an HTTP server built in C.
- **Typescript, React, CSS, Python, Node.js, C, Angular, Next.js, Figma**

Co-Founder and CEO - Crimata

May 2019 - June 2021, Milwaukee, WI

- Strived to increase the quality of digital communication by leveraging AI and wearable technology to create novel features and UIs.
 - Created an AI audio messaging app that detects the recipient of a message, allowing users to naturally talk to each other without having to press a button.
 - Reimagined the instant messenger UX using Adobe XD, Electron, and Vue.js.
 - Delivered a uniquely high-quality experience for recording and playing messages through a custom audio API and audio enhancing neural network.
 - Led the team and maintained a high level of feature throughput by setting a good example, listening to others, and providing a long-term vision.
 - Leveraged powerful large language models and custom algorithms to classify the intents of user messages using Python and TensorFlow.
 - Implemented a secure business API using Node.js and Express.js for app downloads, updates, and authentication, aiding in an overall seamless experience.
 - Raised over \$30,000 in part by creating a sleek promotional website using Vue.js and CSS, featuring a realistic and interactive demo ([link](#)).
 - Built a fully automated CI/CD pipeline using GitLab.
- **Javascript, CSS, Python, C, SQL, Node.js, Vue.js, Linux, Adobe XD**

Engineering Intern - Regal Rexnord

May - August 2018, Milwaukee, WI

- Developed embedded software for an IoT device that relays critical data including temperature, vibration, and RPM to a remote server for monitoring purposes, enabling customers to perform preemptive maintenance.
- **C++, Python, MatLab, SolidWorks**

PROJECTS

Audio API for Node.js

Made working with audio in Node.js easier by creating a simpler and more powerful API for recording and playback that works on all platforms. Added automatic device switching so apps can tell when users plug in headphones or connect to a bluetooth speaker ([link](#)).

► **C, Node.js**

ML Audio Enhancer

Improved the audio experience in Crimata by training a neural network to increase the quality of audio messages, using Python and TensorFlow ([link](#)).

► **Python, TensorFlow**

Power Over Ethernet Adapter

An embedded system that enables multiple PoE devices such as security cameras or smart thermostats to be daisy-chained together, resulting in less wiring and more flexibility ([link](#)).

► **C, Python, Hardware Design**

Electric Skateboard Motor

Improved on current offerings in torque and efficiency through innovations including a Halbach magnet array and a 3D printed stator ([link](#)).

► **Python, SolidWorks, MatLab**

EDUCATION

Xavier University

August 2015 - May 2019, Cincinnati, OH

Bachelor of Science in Engineering Physics, Minor in Business

COMMUNITY

Websites for Small Business

2019-2021, Milwaukee, WI

Modernized small local businesses through free website design and development.