Austen Cabret

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SKILLS

Web: • Next • React • TypeScript • JavaScript • CSS3 • HTML5 • Three • Framer-motion • Azure • AWS • Node • Webpack • SQL • Python • C++ • Cmake • Django • PyTorch • Matplotlib • Linux • Postman

Other: • Data structures • algorithms • Git • Github • Z shell • Figma • Agile • Unreal Engine

EDUCATION

Massachusetts Institute of Technology: OpenCourseWare — Online

Computer Science + Engineering — *Jul 2022 – Jul 2023*
algoexpert.io/frontend Certificate — *Completion: Oct 2023*
Self-taught — *2017+*

Florida International University — Miami, FL

Master of Landscape Architecture — *Graduation: May 2020*
Organizations/Awards: INIT FIU, APX **(mentored 100 students)**, Dean's List

PROJECTS

Full Stack Django + React Web Application *generlate.com* — Jul 2023 – Dec 2023
• Designed UI in Figma. Programmed with Typescript, React, Next, StyleX, Three + Framer-motion.
• Defined PostgreSQL database schemas, Django APIs, CRUD operations + authentication.

Text to 3D Generator *github.com/Generlate/model_generator_c_plus_plus* — Aug 2024 - Present
• Invented a Neural network that learns to produce unique meshes from a training set.
• Coded in Python and C++. Implemented a Nvidia Omniverse extension for visualization.

Resume Website *austencabret.com* — May 2023 - Jun 2023
• Created an animated portfolio using Typescript, Three + Unreal Engine.
• Promoted myself, acquiring **200+ visitors**.

LLM Fine-Tune *https://github.com/Generlate/building_code_consultant* — May 2023 - Jun 2023
• Trained OpenAI's Davinci model on a municipality's building code, cutting time off of architect research.
• Enabled 70% accuracy answering relevant questions, competed in the **Shellhacks** Hackathon.

EXPERIENCE

Software Engineer / YouTuber / Founder *Generlate* — Jul 2020 – Oct 2024
• Engineered web, ML algorithms and 3D to bring a new SaaS to the AEC market.
• Edited videos with Davinci Resolve (top performing got **132k views**), educating and growing the brand.

Web Developer *Ace Power Parts* — May 2023 – Jun 2024
• Built Wordpress/Javascript e-comm features, enabling **$60k monthly reoccurring revenue.**
• Maintained a BigCommerce database of **1500+ SKUs.**

Designer *Insite Studio* — Nov 2021 – Jan 2023
• Led strategic upgrades for an architecture firm. Optimized asset library and upgraded software infrastructure, **improving productivity by 3x** and **reducing operating expense by $11,000/month.**
• By doing **hundreds of AutoCAD drawings**, 80+ meetings, 50+ Lumion renders, 20+ sketches + 8 models, satisfied customers, persuading at least **50 clients** to continue using the firm's services.

Geographic Information Systems Intern *Village of Wellington* — May 2015 – Aug 2015
• Labeled and processed unstructured image data for a municipality's mapping applications.