Craig Haber

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PROFESSIONAL SUMMARY

Full-stack Software Engineer with 7 years of professional programming experience, specializing in architecting web applications and services with modern JavaScript frameworks and Python.

WORK EXPERIENCE

Software Engineer
LandGate (Startup)
February 2024 – Present
Remote

- Independently rebuilt two flagship web applications from ground up, which together account for the majority of company revenue, utilizing TypeScript, Node.js, Angular, and PostgreSQL.
- *Application 1*: Spearheaded a complete overhaul of a web application for visualizing renewable energy project construction, doubling product sale rates post-launch. Continuously improve the application by developing and implementing new features driven by user feedback from a growing customer base of 1,000+ users.
- *Application 2:* Led the full-scale redevelopment of a web application for U.S. land parcel data analysis. Delivered significant ease of use and performance improvements, such as improving search times by 500% through a Node.js backend. The new app has received exceptional feedback from 10 different enterprise clients and directly secured fresh contracts.

Advanced Software Engineer
3M
July 2021 – February 2024
Meriden, CT

- Redesigned a legacy desktop healthcare app into a modern web application using an Angular/TypeScript frontend and a Java backend, collaborating on an agile team of 8 engineers. This resulted in 50+ enterprise clients excitedly migrating to the new tool, citing improved use experience, ease of use, and workflow efficiency.
- Orchestrated a variety of cloud-based web services, APIs, and tools utilizing both server-based (AWS EC2/ECS) and serverless (AWS Lambda) architectures that scale to process thousands of transactions per second.
- Led cross-application data migration with Python and Jenkins, seamlessly transferring data and permissions for 3000 customers from a SQL database to an optimized middleware datastore.
- Architected and implemented transaction counting for a web service utilizing a frequently accessed NoSQL database, scaling to track thousands of transactions per second and securing hundreds of thousands in revenue.
- Independently optimized a nightly AWS Lambda Java process for aggregating healthcare claims, achieving a 40% improvement in performance and cost reduction.

Software Engineer Intern
3M
June 2020 – August 2020
Meriden, CT

- Built an automated system using Python to convert integration test cases between different file formats for healthcare software, dramatically cutting processing times down from 20 minutes to 5 seconds.

Software Programmer
Connecticut College
September 2018 – May 2021
New London, CT

- Programmed interactive psychological experiments with JavaScript that were conducted at scale on hundreds of online participants.
- Developed a website for advertising the research lab that assisted in recruiting two new members.

Computer Science Teaching Assistant
Connecticut College
September 2018 – May 2021
New London, CT

- Tutored over 100 students in algorithms, data structures, and machine learning concepts at weekly TA sessions.
- Graded and provided feedback on over 300 student Python and Java programming assignments, ranging from data structure implementation to text analysis tools.

Education

Connecticut College   New London, CT
Bachelor's in Computer Science   *May 2021*

Honors

Senior & Junior Year Distinction in Computer Science, Phi Beta Kappa, Summa Cum Laude

Projects

Media Tracking Web App | *mymediajournal.com*
- Built a full-stack web application with a React frontend, Node.js backend, and PostgreSQL database for media journaling. Implemented a RESTful API and a robust database schema to efficiently store and retrieve user data.

Brain Anatomy Visualization Website | *mtbrain.digital.conncoll.edu*
- Created a website for interactively learning brain anatomy with JavaScript, HTML, CSS and Python. It maintains an average of 200 unique monthly users and is actively used to teach college courses.

Snake Game AI | *craighaber.github.io/AI-for-Snake-Game*
- Programmed an AI from scratch in Python that drastically outperforms humans at the game "Snake" by an average of over 100%, and developed a website to showcase it with JavaScript, HTML, and CSS.

Skills

TypeScript | JavaScript | Angular | React | Python | Java | HTML | CSS | Git | PostgreSQL | AWS