ERIC CHEN

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EDUCATION

University of Maryland   Aug 2021 - May 2025

B.S. in Computer Engineering | Academy of Machine Learning   *GPA: 3.97*

QUEST Honors Program: Selective team-based honors program focused on product design, management, and consulting

Awards: Ted & Janice Smith Scholar | James W. Dally Scholar | Derek H. Blume Scholar | L3Harris Scholar

EXPERIENCE & PROJECTS

Viam | Robot Development Kit Team   May 2024 - Aug 2024

Software Engineer Intern | Go, C, C++, Python   *New York, NY*

· Investigated and resolved a critical memory management flaw in initialization of our C GPIO control library (Raspberry Pi 4) affecting a key client, significantly enhancing the reliability of our core product

· Managed DMA and GPU memory to prevent resource depletion, ensuring robust performance in our production servers

· Integrating high-precision GPS tracking research from UT Austin Lab using RTK and IMU technologies into our product

· Optimized GPS RTK serial code for precise tracking and developed comprehensive tests to ensure precision and accuracy

Mobius Labs | early-stage startup   May 2023 - Aug 2023

Generative AI Intern | Python, Pandas, React, FastAPI, AWS   *Palo Alto, CA*

· Created the first pilot products and demos that secured new round of VC funding (2 mil) and first enterprise contracts

· Built an application that enables enterprises to leverage secure open-source language models into their business practices

· Created an application using LangChain and GPT-4 to allow enterprises to analyze data using natural language

· Designed system architecture to build out MVPs of potential products using AWS EC2, SageMaker, and CloudFormation

Intuit Mailchimp   Jun 2022 - Sep 2022

Machine Learning Engineer Intern | Python, Jenkins, Docker, Kubernetes, GCP   *Atlanta, GA*

· Integrated automated documentation generation and version control into CI/CD within machine learning repositories

· Eliminated substantial development overhead and streamlined production efficiency by 20%

· Migrated development environment to GCP via Google Compute Engine instance templates and Direct Interconnect

Pulsar Academy | `https://pulsaracademy.com`   May 2020 - Mar 2022

Founder and CEO | Django, PostgreSQL, Docker, AWS   *Potomac, MD*

· Initiated an online business to educate the youth about coding principles in Java, Python, and C++

· Designed and built an online platform to manage registration, payment, and course content

· Containerized app with Docker and docker-compose and hosted website on AWS EC2 + RDS and Google Compute Engine

· Utilized online marketing to successfully host four seasons of courses spanning a year

LEADERSHIP AND TECHNICAL ACTIVITIES

Bitcamp Hackathon Team *(Tech Team Director | Senior Advisor)*   Sep 2022 - Present

· Recruited and led a team of 13 students to develop Bitcamp's tech, managing team innovation and the development life cycle

· Developed the website and cross-platform app used by 2000+ hackers in 2024 using Vue.js, AWS Lambda, S3, and DynamoDB

· Built Bitcamp's first comprehensive exhibition platform for hackers to present projects, featuring CSV imports, automatic scheduling, and table assignments using React, Flask, MongoDB, and Docker.

Northrop Grumman Environmental Sustainability Challenge *(First Place Team)*   Mar 2022 - May 2022

· Designed an IoT storm water management system to prevent runoff and flooding on residential properties

· Developed the weather parsing logic with Python and the water flow control with Arduino + Raspberry Pi

· Presented product and market strategy to Northrop engineers and won first place across entire university with a $2,500 prize

TECHNICAL SKILLS

Programming	Python, HTML/CSS, C, Go, Java, JavaScript, TypeScript, Bash, Ruby, R
Frameworks	(Django, Flask, FastAPI), (React, Vue.js, Svelte), (Scikit-Learn, Keras + Tensorflow)
DevOps	AWS, GCP, Docker, Kubernetes, Git, Jenkins
Engineering	MATLAB, STM32 (ARM), Verilog, Oscilloscope, DLA, CAD, PSpice, LabVIEW

CERTIFICATIONS

AWS Associate Solutions Architect Certification SAA-C02
Coursera Deep Learning Specialization Certification
Oracle Java SE 8 Programmer I Certification IZ0-808