ALAN CHEN

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OBJECTIVE

Highly skilled and motivated engineer with a passion for both hardware and software. Seeking a full-time position that will allow me to learn more about the vast computer engineering field while making a difference in the world.

EDUCATION

2017-2021

University of Massachusetts Amherst, ECE Department, Amherst, MA

Bachelor of Science – Computer Engineering

Professional/Research Experience

06/2021-Present

Software Engineer, Optum, Boston, MA

- Developed features on Exception Management Platform that streamlines 10,000+ requests per day
- Increased fulfillment of requests, reduced resolution time and human errors
- Delivered a fully functioning application with fast turnaround time (1 week) due to healthcare open enrollment season. This application allows clients to search healthcare providers based on location, accessibility, doctors, specialty, hospitals, and different types of associated organizations.
- Weekly presentation to business leaders regarding app updates and future features implementation
- Researched emerging new technology and convinced team members to utilize it
- React, Cypress, SpringBoot, MySQL, Jenkins, Docker, Kubernetes, User Auth KeyCloak

05/2021-Present

Founder - Engineer, ThunderStrike, Boston, MA

- Designed UI so users can access resources (raspberry pi) inside datacenters
- Implemented LightHouse (client-side) for website and network scanning for our main free service
- Research about security for ARM processors and learning about FPGA
- Brainstorming new ideas and evaluating the structure of our start-up, laying out a good foundation

06/2019-12/2020 Software Engineer Intern, Optum, Boston, MA

- Summer of 2019 -
 - Analyze trends within call center data and presented actionable insights
 - Utilized Graph Database, TigerGraph, to improve data query speed
 - Build a react dashboard to visualize data stats
- Summer Winter of 2020 -
 - Developed push notification features using Swift for iOS app using Airship SDK
 - Tested our apps compatibility with AppleHealth Kit to share fitness data
 - Leveraged use of Cron Job and SQL to automated delivery of email updates to users

SKILLS

Languages: Python, Java, JavaScript, React, C, Assembly, Verilog

Database and Client/Server Technologies: MySQL, TigerGraph, AWS DynamoDB

Software Tools: Docker, Kubernetes, KeyCloak, Cypress, MatLab

Others: Cadence, FPGA, Quartus, SPI, UART, Circuits, Synopsys, VLSI, Embedded Systems, Computer Architecture

INTEREST

Embedded Systems, FPGA, Robotics, Drones, Computer Vision, Investments, Apps

VLSI (Chip Design) - Design CMOS logic gates on virtuoso, extracted netlist, and finally perform simulation\verification Investment Tools - Used Panda and NumPy for real time stock price analytics and send free real time updates to devices Object Detection via Drone - Retrieved live feed from a drone to perform object detection using pre-trained neural networks

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