

## EDUCATION

**University of Massachusetts Amherst**, Amherst, MA

Candidate, December 2024

**College of Engineering:** *Bachelor of Science in Computer Engineering*

### Relevant Coursework

Networked Embedded Systems, Synthesis & Verification of Digital Systems, Computer Architecture, Intro to Cryptography, Math Tools for Machine Learning, Systems Programming, Hardware Organization & Digital Design, Security Engineering, Intro Embedded Systems, Probability and Statistics, Data Structures and Algorithms, Linear Algebra, Complex Numbers

## TECHNICAL SKILLS

**Proficient in** Go, bash, TypeScript, JavaScript, Python, HTML, React, Node, MongoDB, SQL, Redis, Git, Linux, REST APIs

**Experience with** Scrum, Agile, C, Docker, Kubernetes, Helm, Google Cloud, AWS, Azure, CI/CD, Testing Automation

## WORK EXPERIENCES

**CarGurus**, Boston, MA

Jan 2023 – June 2023

*Engineering Co-op - Platform as a Service*

- Enhanced CLI tool based on Golang and Kubernetes to enable remote code builds, improving workload deployment pipelines, resulting in reduction of deployment time and improved developer experience
- Collaborated with developers across teams and stakeholders under Scrum and Agile practices to deliver features, identify and root cause issues
- Built tab-autocomplete scripts written in ZSH for the CLI independently, leading to improvement in developer experience and productivity
- Developed a GPT-4 API based dashboard for log analysis and referencing company documentation, error logs and online documentation to present solutions and presented it to the VP and the engineering platform team

**AudioShelf**, Co-Founder / Backend Dev

February 2022 – March 2023

- Lead a team of two developers in backend development pipeline through kanban and code review on GitHub
- Designed backend API in typescript and content delivery service and microservices architecture on GCP
- Developed CMS dashboard in react to manage content, users and monitor metrics for 2,500 mobile app users
- Setup CI/CD pipelines to deploy microservices in US East and Mumbai region and load balance based on location

**University of Massachusetts Engineering**, Amherst MA

Sept 2023 – May 2024

*Undergraduate Teaching and Research Assistant - Security Engineering*

- Develop hands-on lab for 50+ students by implementing syncing protocols on NRF9160 5G IoT boards
- Designed data collection instruments focused on precise timing metrics, streamlining data acquisition processes
- Recorded errors in time syncing protocols over 5G, facilitating new research into network time synchronization
- Collaborated with professor to document findings and build appropriate curriculum for security courses

## PROJECTS

**GymSense**, Senior Design Project UMass 2024

November 2022

- Led the software design for GymSense, ensuring seamless integration and real-time updates on occupancy
- Planned and implemented the connectivity and analytics framework for IoT devices in a low-power, low-cost IoT devices running on Bluetooth Low Energy
- Developed a dashboard using react, redux and websockets as a live dashboard for monitoring gym machines

## LEADERSHIP ACTIVITY

**HackUMass**, Embeddings in Generative AI Workshop

November 2023

- Delivered a hands-on workshop on developing Generative AI APIs to over 25 participants
- Developed and shared educational materials on context extraction, semantic search and embedding models
- Compiled a diverse array of real-world applications of embeddings, showcasing the practical use of embedding models