(615) 509-4546

University of Texas at Austin - Bachelor of Science in Mechanical Engineering

May 2024

Minor: Computer Science

GPA: 3.83

Relevant Coursework: Elements of Data Analytics (Python), Elements of Software Engineering (Python), Programming and Engineering Computer Methods (MATLAB), Elements of Computer Networking (Python)

EXPERIENCE

Software Engineer

Harmonic Bionics

Mar 2024 - Current (Austin, TX)

- Leverage Next.js to build a comprehensive dashboard for physical therapists to aggregate patient joint data
- Construct data pipelines in Python to convert raw joint data into actionable items for physical therapists

Full Stack Software Engineer

Coast dApps LLC

Nov 2021 – Current (Austin, TX)

- Utilize Next.js, Typescript, Firebase, GCP, and AWS to build a cryptocurrency exchange with 6,000 users
- Write backend functionality using Node.js, Serverless Functions, and Solidity smart contracts
- Manage ACH, Wire, Credit, and Debit transactions through Rest APIs
- Architect GCP and AWS cloud infrastructure by designing and managing cloud functions for webhooks, VMs for blockchain oracle validation, identity management, and Firebase for authentication and data storage

Security Research Engineering Intern

Cisco

Summer 2023 (Austin, TX)

- Augment Python fuzzing software by introducing server-side functionality and raw socket compatibility
- Lead fuzzing campaign against legacy libraries using AFL++, libfuzzer, honggfuzz, and FuzzTest
- Write harnesses in C & C++ to interface between our fuzzing engine and the target
- Create fuzzing-based learning modules for security engineers within Cisco

Software Engineering Intern

REALLY Communications, Inc.

Summer 2022 (Austin, TX)

- Leverage Remix.js to create a web application for users to compare phone plans
- Design Express.js backend that pulls data from PostgreSQL database
- Scrape phone plan websites with Python and compile data into our database

Cloud Engineering Intern

HCA Healthcare

Sep 2021 - May 2022 (Remote)

- Manage Azure, GCP, and Splunk environments through playbook automation
- Create Azure Sentinel Analytic Rules using KQL Queries and Azure Logic Apps

PROJECTS

Arthrovise

Feb 2024 - Present

- Remote monitoring platform for arthritis patients prototyped with an MPU6050 IMU & an ESP32
- Joint data is transmitted over BLE to React Native Application to give real-time feedback on movements
- Backend is written in NestJS that will connect to a dashboard for therapists to view patient progress

Eleventeen

Nov 2023 - Jan 2024

- Slack application for optimized scheduling of meetings within enterprises
- Allow any user to automatically find the next available time for all users within a Slack group
- Leveraged Google OAuth to effortlessly sync between Slack & Google Calendar

Hockey Robot

Aug – Dec 2023

- Custom-designed robot to shoot pucks at goals based on infrared lights
- Used Arduino for the motor drivers & PID control & a Raspberry Pi for localization and navigation

SKILLS / AWARDS

- Technical Skills: JavaScript, TypeScript, Python, NextJS, Embedded Systems, C/C++, DevOps, GCP/AWS
- Vanderbilt Innovation and Entrepreneurship Society 48 Hour Launch Pitch Competition Winner
- Tau Beta Pi Engineering Honors Society Director of Professional Development