Mohammad Arham

Amherst MA

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Summary

Computer Engineering student with hands-on experience developing software systems and frameworks in independent and team-based projects. Effective in communicating with team members and leading projects.

Education

University of Massachusetts Amherst   Anticipated May 2024

Bachelor of Science in Computer Engineering

Relevant Coursework

Security Engineering, Systems Programming, Hardware Organization & Digital design, Advanced Programming I, Computational Tools, Circuits & Electronics I, Analytical Tools for ECE.

Technical Skills

JavaScript, TypeScript, Python, React.js, React Native, Docker, Kubernetes, Redis, MongoDB, SQL, AWS, Google Cloud, Git, CI/CD.

Work Experience

CTO, AudioShelf   Feb 2022 - Now

- Led the backend development pipeline and managed a team of 2 interns. Developed the backend API and audio content delivery service using a microservices architecture on the Google Cloud Platform.
- Developed a CMS dashboard and a supporting management API from scratch for content and user management and permissions using React.
- Hosted the fully scalable serverless API on GCP Cloud run using docker, cloud builds, and cloud run which supported up to 200 concurrent users in production.

Computer Classrooms Assistant, UMass IT   Fall 2021- Now

- Provided phone and in-person support for classroom technical issues.
- Supported the upkeep and maintenance of computer labs managed by IT.
- Notify and resolve any issues affecting workflows in computer labs using a ticket system.

Technical Consultant, UMass IT   Summer 2022

- Dismantled and deployed several hundred computers using scripted deployments and OS installs on Windows and Mac machines all around the UMass Campus.
- Performed maintenance and upkeep of about 12-15 computer labs around campus.
- Added new machines to the network and tested several hundred machines for issues and raised service requests.

Frontend Developer, Cisco Systems India   Aug 2019 - Feb 2020

- Collaborated with other team members to create an event management platform for high schools.
- Developed a responsive design implementing a mobile-first approach.
- Supported entire CRUD operations on the front end for the REST API.
- Designed and developed a desktop and mobile UI dashboard for a Django WebApp.

Relevant Projects

Dad API   Dec 2020 - May 2022

- Developed a fully scalable serverless API that serves dad jokes and pickup lines.
- Curated a database of over 1500 dad jokes from sources like web scrapes, APIs, and open-source datasets.
- Dockerized and hosted the API on google cloud run where the API is publicly available.

Leadership & Activities

HackUMass - REST API workshop   November 2021

- Organized a hands-on workshop at HackUMass teaching fundamentals of REST APIs.
- Helped attendees develop their first web API using express.js to introduce backend concepts.

CodemianCTF   May 2021

- Organized an Introduction to Cyber Security Capture-the-Flag attended by over 100 people.
- Designed several web, forensics, and cryptography challenges to teach different aspects of cybersecurity.