ANIRUDH EMMADI

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EXPERIENCE

Full Stack Software Engineer, iLink Digital   *Jul 2022 - Present*
- Developed a Platform-as-a-Service for real-time analysis of video feeds from multiple cameras using **Angular**, **Javascript**, **Python**, **PyTorch** and **AI Computer Vision** models.
- Maintained **Docker** containers and **Kubernetes** clusters on **Azure Cloud** and Microsoft Stack **Edge Servers** for localized on-prem deployments to improve latency.
- Engaged with a range of private networking technologies, including custom **network switches** and routing, **5G network layers**, **CradlePoint** backhauls, **Radio Access Networks (RANs)**, and more.
- Conducted **integration testing** of diverse network architectures and applications, ensuring seamless compatibility between application and network layers and measuring overall performance metrics.
- Proactively led and managed diverse stakeholder needs across multiple organizations, effectively coordinating and prioritizing requirements in project execution.

Product Engineer, Hifive   *Apr 2022 - Present*
- Led product vision and roadmap, successfully increasing revenue by 120% since product roadmap implementations.
- Spearheaded the migration of multiple **Monolith systems** to an **Event-Driven Microservice Architecture** on **Amazon Web Services (AWS),** strategically scaling the product tech-stack to enhance performance and reduce cloud costs by over 40%.
- Managed a technical team of four software engineers across numerous product releases, and incorporated **automated workflows** to increase developer productivity.
- Implemented a meticulous refactoring process, transitioning the codebase from **React**, **JavaScript**, and **Python** (**Flask**) to **NextJS**, **TypeScript**, and the **Serverless framework**, resulting in improved code maintainability and reusability, saving engineering time and cost.
- Pioneered an **A/B product testing** framework to validate user assumptions and enable an incremental feature roll-out, empowering **data-driven business decisions** to maximize the impact of product enhancements.

Cloud Software Engineer, BizCloud Experts   *Jan 2022 - Jul 2022*
- Designed and implemented scalable, production-ready cloud solutions for multiple companies, leveraging **Amazon Web Services (AWS)** such as **Lambda**, **DynamoDB**, **S3**, **RedShift**, and more, utilizing the **Serverless framework**.
- Developed full-stack software applications for clients, predominantly utilizing **React**, **Node.js**, **Python**, and **SQL**.
- Streamlined architecture to achieve lower latency by introducing data streaming services like **Amazon Kinesis** for real-time data processing, resulting in a 20% reduction in overhead costs.
- Implemented continuous deployment pipelines using **Jenkins** and integrated **unit testing** to enhance application uptime, minimizing unexpected crashes and improving overall performance.
- Provided support to offshore software engineers, ensuring timely project completion and adherence to requirements.

IT Consultant, Fiverr   *Feb 2019 - Jan 2022*
- Managed over 50 clients around the world and consulted regarding **Linux** (**Ubuntu**, **NGINX**, **RAID**) servers, **CI/CD** pipeline configurations, and scalable infrastructure solutions.
- Developed custom software applications and integrated them using **Python**, **Javascript**, and **Docker** containers.

PROJECTS

coursebook-api
- Served an unofficial API of the UT Dallas backend for course enrollment and catalog data, enabling the 1000+ student developer community to build projects on top of it.
- Optimized runtime to under 200ms by implementing **Redis** for data caching and improving web scraping performance.
- Developed using **Python**, **Flask**, **Selenium** (Web Scraping), **MongoDB**, and deployed it on **Heroku**.

plan.degree
- Degree planning solution for students to customize personal degree tracks, ensuring a successful graduation timeline.
- Supports various features such as: course pre-requisite validation, elective course recommendations, and a simple intuitive drag-and-drop user interface.
- Developed using **React**, **Node.js**, **Python**, **Flask**, **MongoDB**, **Auth0**, and deployed using **AWS Amplify**.

SKILLS

Languages/Frameworks: JavaScript, TypeScript, React, NodeJS, NextJS, Python, Flask, Java, Spring Boot
Tools/Technologies: NoSQL, MongoDB, Firebase, AWS (Lambda, DynamoDB, S3, Cloudfront, EC2), Serverless, Docker, Kubernetes, Linux, REST API, Cloudflare, Azure, Microservices, Git, GitHub, OAuth, Postman, JIRA

EDUCATION

Bachelor of Science, Computer Science   *Aug 2018 - May 2022*
The University of Texas at Dallas