Kashi Vishwanath Bondugula

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New York City, NY

EDUCATION

Master of Science in Computer Science at *Stevens Institute of Technology, NJ* Aug 2022 - Dec 2023

SKILLS

Programming Languages: JavaScript (Node.js, React, Angular, ES6, Express.js, Electron.js), HTML, CSS, Bootstrap, Typescript, C, Python (NumPy, Sklearn, ML), Java, Android, React Native, Bash, C#, JSON, YAML.

Databases & Tools: MySQL, PostgreSQL, MongoDB, Redis, Agile, Git, Jira, VS Code, SSH, Vi & other Linux tools.

Cloud: AWS (Lambda, IAM, EC2, ALB, ECS, CloudWatch, S3, CloudFront, RDS), GCP, Docker, Kubernetes, Nginx, Linux (Fedora, Ubuntu), CI/CD Pipelines (Circle CI, Gitlab), HTTP, gRPC, DHT, Micro Services, MQTT, Kafka.

EXPERIENCE

Full Stack Developer at *Quadrus Medical Technologies, NY* June 2023 - Present

- Redefined the **SDLC,** improved **software quality** & **accelerated** development processes by introducing VCS with Gitlab, code reviews, automated CI/CD/CT pipelines, better task management with Agile & **Team Leadership**.
- **Architected** & developed networked data acquisition system for medical devices to work in cloud (**AWS**) or LAN.
- Fortified security of data from medical devices by developing Zcrypt—a cryptographic tool (a CLI, Web App and Shared Libraries) developed in **C** based on Open SSL 3.0 that is **179% faster** than previous workflows.
- Designed & developed an interactive web app for predicting kidney disease for a given patient using **React.js, Node.js, PostgreSQL,** & a Desktop App for managing Real Time Clock (RTC) dongles using **Electron.js, Python**.
- Simplified conversion funnels for the binary data generated by medical devices to streamline into readable timeseries CSV data files with relative times using **Python** for **Data Analysis** with end-to-end test cases.

Senior Software Engineer at *KIoT Innovations, Hyderabad, India* Mar 2022 - Jul 2022

- **Led** the Weather Automation project: An IoT automation based on the weather at customer's home location, built using **Bull** with **Redis** for task scheduling, **Node.js microservices** for actions, workflows, **Ionic** + **Angular** for UI.
- Devised a **strategic solution** to optimize systems (Node.js APIs, Mongo DB queries) **performance by 43%** and removed defects in the existing infrastructure, by monitoring, collecting and analyzing data from Newrelic.
- Built multiple features in a cross-platform hybrid mobile application using **Ionic** with **Angular** for managing IoT devices, smart homes, automations etc., which was licensed & sold to **100 businesses** (E.g.: Prestige, VGuard etc.).
- Improved operations and HR interactions with clients by building a CRM dashboard using **React.js.**

Full Stack Developer at *Fresh Prints, New York City, NY* Sep 2020 - Mar 2022

- Built a scalable **Order Management System** for Fresh Prints with features such as invoices, orders, user management etc., using latest versions of **Angular & Node.js** to accommodate blazing fast expansion of business.
- Revamped the **SEO by 59%** through initial page load optimizations, JS code minification, moved deployment to **AWS** CloudFront, updated cache policy, lazy loading, compression of assets, server-side rendering (**SSR**).
- Drafted a **CI/CD** pipeline using Bit Bucket, Circle Ci, and **AWS** ECS to deploy builds automatically to corresponding environments if all test cases pass on a commit to improve Web Development flow & code reliability.
- **Optimized** existing REST APIs by refining complex dB queries (joins, subqueries) into simpler ones & caching.

ACADEMIC PROJECTS

- **Calligrapher**: Redefined handwritten manuscripts by building a **JAVA** app which will construct handwritten manuscripts by capturing the font style of the user from their handwritten alphabet images for any given text.
- **Scrabble:** Predicted the rating of the players in the game of Scrabble based on given gameplay. Preprocessed data, found highly correlated attributes and modelled using KNN, Neural Networks in Python, SKLearn, Numpy.