Kashi Vishwanath Bondugula

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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, JSON, Typescript, C, Python (NumPy, Sklearn, ML), Java, Android, React Native, Bash, C#, YAML.

Databases & Tools: MySQL, PostgreSQL, MongoDB, Redis, Agile (Scrum), Git, Jira, VS Code, SSH, SCP.

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

EXPERIENCE

Full Stack Developer at Quadrus Medical Technologies, New York City, NY   June 2023 - Present

- Spearheaded design of **architecture** for complex problems, oversaw development and **team leadership**.
- 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 methodologies.
- **Architected** & developed a networked data acquisition system for medical devices to work in cloud or LAN.
- Fortified security of data from medical devices by developing Zcrypt—a powerful cryptographic tool (a CLI, Web App & Shared Libs) developed in **C** based on Open SSL 3.0 that is **179% faster** than previous methods.
- 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 dongles using Electron.js, Python.
- Simplified conversion funnels for the binary data generated by medical devices to streamline into readable time series 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, **Ionic** + **Angular** for UI.
- Devised a **strategic solution** to optimize systems (APIs, DB queries) **performance by 43%** & removed defects in the existing infrastructure, by monitoring, collecting & analyzing data using 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** like VGuard etc.
- Improved operations and HR interactions with clients by building a CRM dashboard using **React.js.**
- **Secured** cloud infrastructure by enforcing isolation of access, better firewall rules, encrypting credentials etc.

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 rapid expansion of business.
- Enhanced sales by **23%,** conversion to sales by revamping the user interfaces & experience of funnels based on user behavior & analytics from **Mix panel, Google Analytics**, UTM parameters to understand promotions.
- 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 the tests pass on a commit to improve Web Development flow.
- 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.
- **SWS:** Created an HTTP/1.0 web server written in C with features like serving static content, directory indexing, CGI execution, logging, run as a daemon & handling multiple concurrent requests using sub-processes.
- **Little Free Libraries:** Connected users to Little Free libraries across Hoboken using a scalable responsive web app built using **Node.js, React, Mongo DB**. Users can create libraries, add comments to a library and rate the fullness of library so donors know when it needs to be refilled and book readers know when to visit the library.
- **Live Radio:** Built a live radio player on the web and a native Android application (web view) built with scalable responsive design using JavaScript media API, this is a freelance project for a client.
- **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.