

Kashi Vishwanath Bondugula

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EDUCATION

Master of Science in Computer Science at Stevens Institute of Technology, NJ Aug 2022 - Ongoing
BTech in Information Technology at JNTUH, Hyderabad, India Aug 2017 - Aug 2021

SKILLS

Languages: JavaScript (Node.js, React, Angular, Next.js), C (IPC, I/O, Processes, Threads), Typescript, Python (NumPy, Sklearn, Matplotlib, Machine Learning), HTML, CSS, Java (JPA, Android), Bash, C#.

Tools & Databases: MySQL, MongoDB, Redis, SQL, PostgreSQL, Git, Jira, Agile, Scrum, VS Code.

Cloud: AWS (Lambda, IAM, EC2, ALB, ECS, CloudWatch, S3, CloudFront, RDS), Docker, Kubernetes, Nginx, Linux (RHEL, Fedora, Ubuntu, Arch), VPN, CI / CD Pipelines (Circle CI, Gitlab), Digital Ocean.

EXPERIENCE

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

- Fortified security of data from medical devices by developing Zcrypt—a powerful cryptographic tool (CLI, Web App & Shared Libraries) developed in **C** based on Open SSL 3.0 that ensures utmost protection using various ciphers (RSA & AES256) throughout the data lifecycle at speeds **179% faster** than previous methods with the help of child processes, threads, IPC & clever IO optimizations.
- Simplified conversion funnels for the binary data generated by medical devices to streamline into human-readable CSV files via Python scripts for easy data visualization.

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

- Led the Weather Automation project: An IoT automation (e.g., smart curtains & lights) based on the weather (sunrise, rainy/cloudy, etc.) at customer's home location, built using Open Weather API, Bull with **Redis** for task scheduling, and **Node.js microservices** for actions & triggers, **Angular** for UI.
- Built a cross-platform hybrid application using Ionic with **Angular** for managing IoT devices, smart homes, automation, workflows, 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**
- Devised a **strategic solution** to optimize system (APIs, DB queries) performance by **43%** & removed deficiencies in the existing infrastructure, by monitoring and collecting data using Newrelic.
- Improved **software quality & accelerated** development processes by establishing coding standards, code reviews & implementing Agile methodologies such as Scrum, CI, CD, & CT pipelines, leading to enhanced productivity and **higher-quality deliverables**.

Full Stack Developer at Fresh Prints, Hyderabad, India Sep 2020 - Mar 2022

- Built an OMS for Fresh Prints which was responsible for handling a **million-dollar business** with features like invoices, orders, users' management etc. using latest version of **Angular and Node.js**.
 - Enhanced the sales by **23%** and increased CPM by **20%** by revamping the user interfaces & experience of funnels based on the user behavior and analytics from Mix panel and google analytics
 - Revamped the SEO by **59%** through initial page load optimizations, JS code minification, moved deployment to **AWS** CloudFront, updated cache policy, lazy loaded modules & compression of assets
 - Drafted a **CI/CD** pipeline using Bit Bucket, Circle Ci and **AWS** ECS to deploy builds automatically to corresponding environments when all the tests pass on a commit with branching strategies.
 - Dealt with complex business logic and transformed into super-fast REST APIs in Node.js, optimized performance using caching with Redis, handled **transaction** failures, payment refunds & CRON jobs.
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ACADEMIC PROJECTS

- Calligrapher:** It is a JAVA app that captures the font style from the handwritten alphabet images given which are parsed and utilized to construct handwritten manuscripts for any given text.
- SWS:** It is an HTTP/1.0 web server written in C that has features like serving content, directory indexing, CGI execution, logging, option to run as daemon and handling multiple concurrent requests.