

Kashi Vishwanath Bondugula

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EDUCATION

Master of Science in CS @ Stevens Institute of Technology, Hoboken, NJ Aug 2022 - Ongoing
BTech in IT @ Sreenidhi Institute of Science and Technology, Hyderabad, India Aug 2017 - Aug 2021

SKILLS

- **Cloud:** AWS (Lambda, IAM, EC2, ALB, ECS, CloudWatch, S3, CloudFront, RDS), Digital Ocean, Docker, Kubernetes, Nginx, Linux (RHEL, Ubuntu, Arch), VPN, CI / CD Pipelines GitHub, Circle Ci
 - **Languages:** JavaScript (Node.js, Angular, React.js, Ionic), Typescript, HTML, CSS, Python (NumPy, Sklearn, Matplotlib), Java (JPA, Micro profile, Android), C, C++, Bash, Go, Dot net Core
 - **Tools & Databases:** MySQL, MongoDB, Redis, SQL, PostgreSQL, Git, Systemd, VSCode, SSH
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EXPERIENCE

Software Engineer Level 2 @ KIoT Innovations, Hyderabad, India Mar 2022 - Jul 2022

- Improved auto scaling, faster recoveries and better security by moving the entire infrastructure (Load Balancers, databases, message brokers, REST servers, application secrets) to a Kubernetes cluster.
- Built a cross platform Ionic app for managing IoT devices that was licensed & sold to 100 businesses
- Devised a strategic solution to monitor and collect data of the infrastructure with which I have identified deficiencies in the existing infrastructure and improved the efficiency using Newrelic, CloudWatch.
- Increased speed of existing and developed new scalable REST APIs using Node.js which decreased latency and increased response times that served thousands of devices
- Built backend microservices using Node.js for IoT app with REST APIs, automations, CRON jobs etc.
- Optimized server costs and deployment pipeline by containerizing services using docker-compose

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

- Drafted a CI/CD pipeline using BitBucket, Circle Ci and AWS ECS to deploy builds automatically to corresponding environments when all the tests pass on a commit with branching strategies.
 - Built an OMS for FreshPrints 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.
 - Dealt with complex business logic and transformed into super-fast REST APIs in Node.js. Optimized performance of the dashboards using caching with Redis database attached to every Node.js server
 - 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, deployment of the website on AWS Cloud Front, updated cache policy and lazy loaded modules
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ACADEMIC PROJECTS

- **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.
- **SISH:** It is a very simple CLI interpreter or shell written in C. It is can be used interactively or as a login shell. It has support for shell redirections, pipelines, background commands, shell built-ins etc.
- **Chrome Password Stealer:** It is a python script which exploits the way google chrome stores saved passwords on Windows devices. It will upload all the passwords to my Dropbox cloud. I have reported this vulnerability to google and they have fixed it in recent versions of Google Chrome.
- **Scrabble Player Rating:** It is a regression problem for predicting the rating of the players based on given gameplay with RMSE as evaluation metric. I have preprocessed the data, EDA, found highly correlated attributes & modelled using several machine learning models like KNN, Neural Networks.
- **Task Scheduler with Go:** It is a Golang REST application which would take tasks from the user on the specified time and schedule the tasks as go subroutines to be executed in the future
- **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