Venkata Sesha Phani, Vakicherla

Portfolio: https://vvsphani.com/

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Education

University of Illinois Chicago   Chicago, Illinois
Master of Science – Computer Science   **Aug 2022 – May 2024**
Birla Institue of Technology and Science – Pilani   **Pilani**, India
B. E. (Hons) – Electrical and Electronics Engineering   **Aug 2013 - May 2017**

Professional Experience.

Senior Software Development Engineer, *Dubai Ports Pvt. Ltd., DP World, India*   **Nov 2020 – April 2022**
- **Cargoes Logistics:** Developed an enterprise-level distributed micro-service-based application for user authentication, RMS, Exchange Rates, and Locations, achieving zero downtime. Managed race conditions using Redis mutex locks.
- **Cargoes Azure Cloud:** Implemented Azure DevOps CI/CD pipelines for microservices deployment on AKS, reducing deployment time by 200%.
- **Cargoes Rates:** Optimized a tender-based freight forwarding application in Node.js and Angular by setting up newrelic an app monitoring tool and papertrial resulted in endpoints performance improvement by around 40%.
- **Route Management System:** Revamped a platform, that calculates the best possible routes between two locations, and supplies the prices for different freight services along the route which decreased the rate upload times by 300%.

Full Stack Developer, *Tapclicks, San Jose, CA, United States*   **Nov 2018 – Nov 2020**
- **App Performance:** Designed a Worker Framework for background job processing, boosting application efficiency by 30% through parallel execution.
- **Async API Framework:** Modernized event-driven PHP architecture using Worker Manager with web sockets, pub-sub, and Redis caching for seamless UI updates resulting in a 20% reduction time.
- **Keyword Rank Tracker:** Launched a Vue.js and PHP keyword rank tracking application handling 2 billion rows of data monthly with a mean response time under 150ms at the 95th percentile.
- **Site Auditor Tool:** Integrated Raven's site auditing API in PHP and built dashboards in Angular with around 90% integration test coverage.

Full Stack Developer, *Reportgarden, San Francisco, CA, United States*   **June 2017 – Nov 2018**
- **Customer Tech Support Lead:** Handled 500+ tickets within tight SLAs, aiding a 10% churn reduction through effective technical support and fixes.
- **Live Report & Dashboards:** Developed features for reports and dashboards using Ruby on Rails and ReactJS, boosting user engagement by 25%.

Software Development Engineer Intern, *Strac Incorporated, Seattle, United States*   **May 2023 – Aug 2023**
- **Browser DLP Extension:** Completed a browser extension within one month to detect Personally Identifiable Information (PII) by intercepting post requests (fetch, xhr, websockets) on platforms like ChatGPT & Google Bard. Extension Link
- **Multi Factor Authentication:** Integrated MFA system with authenticator apps using AWS Amplify and Amazon Congito which enhanced security.
- **Github DLP Bot:** Created a bot that can parse millions of lines of code within seconds using Tree-Sitter a GLR AST parser and find PII information.
- **Enhanced UI/UX:** Engineered PII Dashboards in ReactJS, leveraging Google React Charts which eliminated the necessity for manual report generation, resulting in a significant saving of 20-man hours/week.

Web and Database Developer, *University of Illinois Chicago, IL, United States*   **Jan 2023 – Present**
- **Web Application Development:** Engineered, deployed, and maintained web applications using ReactJS NodeJS, Express, Laravel, and MySQL.
- **App Deployment and Support:** Orchestrated deployment on CentOS7 virtual machines, improved the performance of critical APIs by up to 40%.

Skills Summary

Programming languages: TypeScript, JavaScript, PHP, SQL, PL/SQL, Scala, Python, Java, Ruby
Frontend: React, Redux, Angular, VueJS, HTML, CSS, D3.js, Bootstrap, Bulma, Material UI, Web development
Backend: Node.js**,** Ruby on Rails, SpringBoot, Laravel, ExpressJS, Django, Kafka, Apache Hadoop, gRPC, Proto3, Flask, Logback , Sequelize
QA and Test Frameworks: Jasmine**,** Jest, Supertest**,** karma pytest, JUnit, NUnit, Mockito, Mocha, ScalaTest, Selenium
Databases: PostgreSQl, MySQL, Oracle, MongoDB, Redis, Maria DB, MS SQL, SQLite
Cloud Platforms: Amazon AWS, Microsoft Azure, Azure DevOps
Tools: Git, Github, CI/CD, Docker, Docker Compose, Kubernetes, Scrum, Agile, SVN, Linux, Tableau, Jira

Academic/Personal Projects:

- **Log Analysis and Scalable Processing (AWS[EMR, S3, EC2, Lambda], Scala, gRPC, Hadoop) Architecture**
  Built a powerful log analysis solution in Scala, employing cutting-edge big data techniques to tackle massive log files.
  Engineered a robust application using Hadoop MapReduce capable of efficiently handling substantial data volumes on an Amazon EMR cluster.
- **Urban Pulses and its Social Fabrics (Angular, D3.js, NodeJS, AWS [EC2, Certbot], Java) Live Link, Documentation**
  This project visualizes the urban cities and its social fabrics by creating an interactive visualization dashboard using a mix of computational topology techniques using reeb graphs, merge trees, scalar functions using piecewise linear function on a triangular mesh) and advanced text mining methods.
- **Personal Portfolio (AWS [S3, Cloudfront, Route53, ACM], HTML, SCSS, JS, CI/CD) LiveLink, Documentation**
  Hosted on AWS S3, accelerated by CloudFront, and secured with Route 53 and ACM with updates through GitHub Actions streamline deployment.
- **GDriveApiExplorer** (**NodeJS, Docker Compose, Docker, Ngrok) Documentation**
  Developed a real-time Node.js app using Google Drive API to facilitate file listing, downloading, and tracking of user access, instantly updating the interface upon user additions or removals.