Venkata Sesha Phani, Vakicherla

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Education

University of Illinois Chicago

Master of Science - Computer Science

Birla Institue of Technology and Science - Pilani

B. E. (Hons) – Electrical and Electronics Engineering

Chicago, Illinois

Aug 2022 – May 2024

Pilani, India

Aug 2013 - May 2017

Portfolio: https://vvsphani.com/

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

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%.

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) <u>Live Link</u>, <u>Documentation</u>

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) <u>LiveLink</u>, <u>Documentation</u>

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) <u>Documentation</u>

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.