

VIVEK VARDHAN KALYANAPU

Birmingham, Alabama 35205 | vivekvardhankalyanapu@gmail.com | + 1 (659) 253-9021 | [GitHub](#) | [LinkedIn](#) | [Website](#)

Profile Summary

Presented Full Stack Developer with knowledge of Python, JavaScript, and Java. Proven ability to create high-performing web apps with AngularJS, Node.js, and React. adept at managing databases using MongoDB and PostgreSQL, and boosting system dependability with AWS and Docker. knowledgeable about utilizing headless CMS with GraphQL, establishing OAuth and JWT-based security, and streamlining CI/CD workflows. adept at managing data migration initiatives and increasing user satisfaction and application performance.

Skills

Programming Languages: Java, Python, JavaScript, TypeScript, Kotlin, SQL, HTML/CSS
Frameworks & Libraries: Next.js, AngularJS, React, Redux, Node.js, Express.js, Flask, jQuery, Spring, GraphQL
Testing & Tools: Junit, Mocha & Chai, Postman, Open API (Swagger)
Databases: Oracle, PostgreSQL, MongoDB, Firebase
Developer Tools: Git, Maven, Visual Studio Code, AWS, Android Studio
DevOps & Automation: CI/CD Pipelines (Jenkins, GitHub Actions) Docker, Terraform, Automated Testing (Jest, Cypress), Monitoring & Logging (AWS Cloud Watch, ELK Stack)

Professional Experience

Full Stack Developer | Regions Financial Corporation **February 2024 – Present**

- Designed and implemented server-side rendering with React.js, utilizing Lighthouse for automated performance testing. This resulted in significantly faster page load times and an improved user experience.
- Optimized front-end components using Node.js and React.js, incorporating Redux middleware for state management. These enhancements led to a smoother user experience with faster page interactions and improved application performance.
- Deployed backend APIs using Express.js and leveraged Kubernetes for orchestration and scaling, improving system responsiveness and increasing data processing speed across distributed nodes.
- Designed a multi-layer network application, incorporating DevOps practices for continuous integration and deployment (CI/CD) pipelines. This approach bolstered security measures, reduced server load, and resulted in a more robust and scalable system.
- Integrated Docker for containerization and Jenkins for automated CI/CD, optimizing system components and enhancing application speed and performance.
- Transitioned the architectural framework to a microservices-based structure, utilizing Terraform for infrastructure as code (IaC) and Ansible for configuration management. This transition reduced operational costs, increased system uptime, and enhanced application reliability and scalability.
- Applied Agile design principles throughout the project lifecycle, supported by Jira for project tracking. This enabled the team to complete projects ahead of schedule, ensuring timely delivery and improved project management efficiency.
- Mentored junior developers by implementing pair programming techniques and integrating code review practices using Git. This fostered skill development, a collaborative environment, and increased overall team efficiency.

Mern Stack Developer | Connectial Infosolutions Pvt Ltd **June 2020 – December 2022**

- Client: PayPal Inc.**
- Designed and developed dynamic, responsive webpages using HTML5, CSS3, SASS, Bootstrap, JavaScript, and React/Redux. Employed Webpack for module bundling and optimization to enhance performance and manage dependencies effectively.
 - Created and maintained reusable React.js components for data visualization, leveraging Highcharts for chart rendering. Incorporated automated end-to-end testing with Cypress to validate chart functionality and user interactions.
 - Implemented responsive web design techniques with Bootstrap and CSS3 media queries, ensuring compatibility across iOS and Android devices. Utilized BrowserStack for cross-browser testing to verify the responsive design across multiple platforms.
 - Managed Confidential's security dashboard, addressing back-end and client-side issues through coding, maintenance, and bug fixes. Automated deployment processes with Jenkins and Docker to ensure rapid and reliable delivery of updates.
 - Developed and optimized Single Page Applications (SPAs) using React/Redux and Webpack. Upgraded Highcharts and Node.js versions, utilizing Docker for containerization and dependency management, and employed automated performance testing with Lighthouse to monitor and enhance application performance.
 - Parsed CSV files for data integration in React.js, and designed ETL pipelines with Apache Airflow to automate data extraction and integration processes, ensuring seamless data flow from back-end systems to the front-end.
 - Utilized Mongoose to write schemas and models for MongoDB, ensuring efficient data integration for front-end use. Implemented infrastructure as code (IaC) with Terraform to manage and provision database resources effectively.

Projects

SnapShop - Full Stack E-commerce Website (MERN Stack)

- Constructed a fully functional e-commerce site using MongoDB, Express.js, React, and Node.js, complete with a user-friendly interface and secure backend.
- Incorporated Redux Toolkit for advanced state management, ensuring smooth and responsive application behavior.
- Engineered a RESTful API for efficient handling of products, users, and orders, enabling robust CRUD operations.
- Set up JWT for secure authentication, Stripe for payment processing, and Cloudinary for image management.
- Introduced site features like search, filters, pagination, and established a comprehensive admin dashboard for data insights, management.
- Resolved complex programming challenges, enhancing the ability to troubleshoot and optimize full-stack development processes.

Education

UNIVERSITY OF ALABAMA, Birmingham, AL **January 2023 – April 2024**
Masters in computer science

GITAM INSTITUTE OF TECHNOLOGY, Visakhapatnam, INDIA **June 2017 – March 2021**
Bachelor of Technology, Major in Electronics, and communication