

AVINASH REDDY

Full-stack Developer

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SUMMARY

Full stack developer with 3 years of experience specializing in building scalable, high-performance web applications. Expert in creating responsive, secure solutions using MERN and Java technologies. Proven track record of improving user engagement, optimizing system performance, and implementing robust CI/CD pipelines. Adept at translating complex technical requirements into innovative, user-centric digital solutions.

SKILLS

Methodologies: SDLC, Agile, Waterfall

Programming Languages: Core Java, Java, Python, SQL

Front-End Development: HTML5, CSS3, JavaScript, TypeScript, React.js, Vue.js, Angular, Next.js, React Native, Three.js, Tailwind CSS, jQuery, AJAX, Bootstrap, Material-UI, SASS, Redux

Back-End Development: Spring Boot, Spring MVC, Spring Security, Hibernate, Node.js, Express.js, RESTful API, GraphQL, WebSockets

Architecture & Security: Microservices Architecture, MVC, REST API, JWT

Databases: MongoDB, PostgreSQL, MySQL

Cloud & DevOps: AWS (EC2, S3, EBS, Lambda, RDS, Auto-Scaling Groups, Elastic Load Balancing, ECS, CloudWatch, CloudFront), Microsoft Azure, Docker, Kubernetes, Google Firebase

Build Tools & Version Control: Maven, Git, GitHub, GitLab

Testing & IDE Tools: Cypress, Selenium, Jest, JUnit, Mockito, Eclipse, Visual Studio, IntelliJ

Web & Application Servers: Apache Tomcat, WebSphere Application Server, BEA WebLogic

Soft Skills: Problem-solving, Communication Skills, Time Management, Attention to detail, Collaborate with cross-functional team

EDUCATION

Masters in Computer Science | Fitchburg State University

BTech in Electronics and Communication Engineering | Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology

WORK EXPERIENCE

Full Stack Developer | FreeLancer (Remote)

May 2024 – October 2024

- Developed responsive e-commerce platform using **HTML5**, **CSS3**, and **JavaScript (ES6)**, with **React.js** frontend and **Node.js** backend, implemented **Tailwind CSS** and user feedback-driven UI improvements, resulting in faster page load time, 35% increase in mobile conversions, and successful handling of 1,000+ daily active users.
- Designed and applied a robust security framework using **Spring Security** with role-based access control, integrated **Spring MVC** with **PostgreSQL** for efficient user management, and utilized **Apache Tomcat** and **Spring Boot** to deliver high-performance application serving, achieving 99.9% uptime with streamlined Maven builds while reducing cart abandonment through a secure and user-friendly checkout process.
- Designed efficient **MongoDB** and **SQL** database architectures following **MVC** patterns, developed **RESTful APIs** in **Java** alongside existing **Node.js** services with **Swagger** documentation for inventory management and payment processing, contributed to **Jest** testing implementation that resulted in faster data processing and reduced API response time.
- Engineered scalable **SaaS** analytics dashboard using **MERN stack**, and **Flask microservices**, incorporated **Java** for data processing services deployed on **AWS (EC2, RDS)** with **Docker** containerization, connected **Firebase** for real-time inventory tracking and order notifications, increasing client satisfaction and improvement in order processing efficiency.
- Participated in implementing automated CI/CD pipeline using **Git** and **GitHub** with **Kubernetes** orchestration, reducing deployment time and production errors, collaborated with cross-functional **Agile** team using **JIRA** for project tracking, implementing **JUnit** and **Mockito** testing that improved code quality metrics.

Full Stack Developer | Vivma Software Inc, India

January 2021 – July 2023

- Developed an Electronic Health Record (EHR) system for a healthcare client using **MERN stack (MongoDB, Express.js, React.js, Node.js)** with **Redux**, integrated **Java** based **microservices** for patient data processing, implementing **Jest** testing and **AWS** deployment automation, resulting in a faster data access and 95% positive user feedback through iterative development based on healthcare staff input.
- Designed a scalable patient portal using **TypeScript**, **React.js**, and **GraphQL**, integrated with **AWS services (EC2, S3, RDS)** and **WebSocket** for real-time features, achieving increased patient engagement and 99.9% uptime through **Docker** containerization.
- Architected **PostgreSQL** database schemas and deployed **RESTful APIs** using **Node.js/Express.js**, integrating **Redis** caching for optimized performance, while ensuring secure data handling through end-to-end testing with **Cypress**, reducing system-related tickets.
- Led healthcare application development using **React.js**, **Bootstrap**, and **Java** with **Spring MVC**, implementing **Spring Boot** backend services and **Spring Security** for authentication, established CI/CD pipelines with **GitHub** to accelerate feature deployment, and enhanced user experience through automated appointment scheduling and seamless telemedicine integration.
- Built cross-platform solutions using **React Native** and **Vue.js**, integrating payment gateways and **Firebase** real-time database, while collaborating with cross-functional teams in an Agile environment to deliver high-performance applications.

PROJECTS

EatExpress: Developed a multi-vendor restaurant platform enabling vendors to register and manage up to 10 restaurants. The application features a user-friendly interface for managing restaurant details and dynamic menu browsing. Built the backend using **Node.js**, **Express.js**, **MongoDB**, and **Mongoose** for efficient data management, while the responsive frontend utilizes **React** and **Material-UI**, ensuring a seamless user experience for browsing menus and managing orders across devices.

CoinWatch: Created a Chrome extension for tracking cryptocurrency prices and managing favorite coins, utilizing **React** and **JavaScript** for the frontend. Implemented user authentication for personalized experiences and integrated **Firebase** and **Firestore** for real-time data retrieval and historical visualization. Used **ApexCharts** to create dynamic charts, enabling users to monitor cryptocurrency trends effectively.

SwiftCart: Created an e-commerce platform using **HTML**, **CSS**, and **JavaScript** for a dynamic and responsive user interface with DOM manipulation. Applied features like API integration for product display, category-based filtering, and search functionality to enhance user experience, while maintaining an organized project structure without backend technologies.