

PAVAN KARTHIK RAMAPURAM

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CAREER SUMMARY

Full-stack developer with 4 years of experience building scalable web applications, enhancing **UI/UX** with **React.js**, developing high-performance **REST APIs with Java & Spring Boot**, and deploying cloud-native solutions on **AWS**. Reduced manual effort by **90%**, improved system reliability, and accelerated development through full-stack solutions in Agile teams.

PROFESSIONAL EXPERIENCE

Frontend Engineer, KGS Technology Group Inc, Georgia, US

Mar 2025 - Current

- Built dynamic, responsive user interfaces using **React.js** and **Redux**, and integrated them with **RESTful APIs** developed in **Java** and **Spring Boot**, enhancing user experience and reducing load times by **30%**.
- Optimized **MySQL database design and queries**, and integrated scalable cloud solutions using **AWS services (S3, EC2, Lambda)**, resulting in improved data integrity and a **25% reduction in infrastructure costs**.
- Boosted **SEO** performance by **50%** and improved accessibility compliance (WCAG 2.1) using **React.js** and semantic HTML enhancements.
- **Collaborated in Agile/Scrum teams** and streamlined DevOps workflows with **GitHub Actions, Git, and JIRA**, enabling faster, more reliable deployments and seamless cross-functional coordination.
- Wrote **reusable, testable code** and **conducted unit/integration testing**, while actively participating in **code reviews and mentoring**, enhancing system reliability and promoting best development practices.

Senior Software Engineer, LTIMindtree, Bangalore, India

Dec 2021 – Dec 2022

- Improved development efficiency by **40%** by creating reusable **React.js components**, integrating them with **AWS APIs**, and optimizing rendering through **code splitting** and **memoization**, resulting in a **45% reduction in load time**.
- Automated system monitoring **workflows** using **PowerShell scripts** and **REST APIs**, surfacing health metrics to **React dashboards**, and reducing manual effort by **90%** while saving **8+ hours daily** for operations.
- Increased backend performance by **50%** through efficient **Spring Boot API** development, asynchronous processing, and query optimization, supporting real-time alerting and data sync with **AWS CloudWatch** and **Lambda**.
- Maintained **98%+ release uptime** in a **20-member Agile team** by enforcing **CI/CD pipelines (GitHub Actions)**, reducing deployment rollback frequency by **70%**, and validating builds via test automation and static analysis tools like **SonarQube**.
- Minimized production rollback frequency by **70%** by establishing robust **CI/CD validation steps** including test automation, build fail checks.

Senior Software Engineer, LTIMindtree, Bangalore, India

May 2021 – Dec 2021

- Designed and developed logistics modules in **React.js**, integrating **AWS S3** for product tracking and asset retrieval, which improved efficiency by **25%** and enhanced dashboard load speed by **40%**.
- Revamped the **user interface using React.js**, leading to a **15% increase in customer engagement** and significantly improving mobile responsiveness and usability across devices.
- Engineered modular **Java microservices** to streamline backend processes and improve integration efficiency by **40%**.
- Reduced frontend bugs by **25%** by collaborating with QA to build **automated testing pipelines** for **React components**, for smooth release.

Software Engineer, LTIMindtree, Bangalore, India

Jan 2020 – May 2021

- **Created** reusable **UI modules** including **popup components, landing pages, and form elements** using **React.js**, accelerating development of new features by **30%** and ensuring consistent design across the application.
- Established secure authentication flows using **AWS Cognito** and **React.js**, earning a **9.5/10 rating** from product owners for better reliability.
- Migrated legacy UI to **React.js**, reducing technical debt by **40%** and significantly improving code maintainability and scalability.
- Enhanced B2B/B2C conversion rates by **22%** through improved product browsing experiences using **JavaScript** and **BigCommerce**.
- Boosted mobile retention by **18%** by upgrading cross-device layouts with **HTML5, CSS3, and React.js**, ensuring responsive design.
- **Reduced security vulnerabilities by 50%** by implementing **HTTPS, CORS policies**, and input validation in **React & Spring Boot** applications.

Junior Engineer, LTIMindtree, Bangalore, India

May 2019 – Jan 2020

- Built and deployed a scalable backend for a bus ticket booking app using **Spring Boot Microservices**, applying layered architecture to separate concerns across **Controller, Service, and DAO layers** for better maintainability.
- Developed and hosted **User, Ticket, and Location Services** as independent modules, registered with **Eureka Discovery Server**, and reduced query time by **30%** by optimizing data access through **JPA and JDBC**.
- **Integrated Swagger UI** for interactive API documentation, boosting developer productivity and reducing onboarding time by **40%**.

SKILLS

Front-End: React.js, JavaScript, Typescript, HTML5, CSS3, Responsive Design | **Back-End:** Java, C# | **Cloud/DevOps:** AWS (EC2, S3, Lambda), Azure, Docker | **Databases:** MySQL, MongoDB | **API & Tools:** Git, Github Actions, NPM, RESTful APIs, Postman, Swagger UI, VS Code, Eclipse IDE | **Methodologies:** Agile, Scrum, Test-Driven Development (TDD) | **Certifications:** AWS Certified Cloud Practitioner

EDUCATION

University of North Texas, Denton, TX

Jan 2023 – Dec 2024

Master of Science in Data Science