ARUNA MURUGESAN

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SUMMARY

Full-Stack Developer with 3+ years of experience building scalable, high-performance web applications using React, Redux, Java, Spring Boot, and AWS. Proven expertise in migrating enterprise applications, optimizing frontend performance, designing REST APIs, and delivering end-to-end features in Agile environments. Strong focus on clean architecture, performance optimization, and user-centric design.

WORK EXPERIENCE

Verizon | Software Development Engineer | Irving, Texas   **Jan'25- Present**
- Migrated an enterprise Verizon Business e-commerce application from Angular to React, improving performance and UX.
- Implemented state management using Redux, ensuring data flow and improved application stability across complex user journeys.
- Collaborated closely with cross-functional teams (backend, QA, and product) in an Agile environment to deliver features on time.
- Integrated frontend components with backend REST APIs, handling authentication, product flows, and account-related transactions.
- Built application logic using React Hooks to manage lifecycle, complex state transitions, and shared behaviors.
- Implemented Redux architecture (actions, reducers, sagas) to manage complex global state across checkout and product workflows.
- Managed sprint tasks, defects, and releases using JIRA in an agile methodology and monitored application health using Kibana.
- Optimized performance using lazy loading and dynamic imports, reducing initial bundle size and improving page load times.

V3 Tech Solutions| Software Engineer | McKinney, Texas   **Aug'23- Jan'25**
- Built a responsive ReactJS front-end with HTML, CSS and JavaScript connected to a Node.js/Express.js back-end with REST APIs.
- Led the design and development of a compliance dashboard, resulting in a 30% increase in reporting efficiency.
- Optimized release cycles using Gitlab CI/CD, reducing downtime by 15%, and managed source code repositories with Git.
- Migrated our web application form on-premises to AWS, boosting scalability and performance.
- Optimized UI responsiveness by minimizing DOM updates and improving API data rendering strategies.
- Applied performance tuning techniques such as debouncing, throttling, and pagination for data-heavy UI components.
- Reduced unnecessary re-renders by optimizing Redux selectors, memoizing components, and minimizing state updates.

Porter Lee Corporation | Software Developer Intern | Schaumburg, Illinois   **Apr'24- Jul'24**
- Enhanced Porter Lee's Evidence Management System with REST APIs using the Delphi Framework.
- Improved data security with JWT-based authentication and authorization protocols.
- Increased system performance by 20% through SQL query optimization and caching.
- Involved in the development of android mobile application in Java and .NET, boosting data efficiency by 30%.
- Facilitated seamless integration and understanding for developers by creating detailed API documentation using Swagger.

Kaashiv InfoTech | Software Developer Intern | Chennai, Tamil Nadu   **Jan'21- Jun'21**
- Contributed to a responsive, cross-browser-compatible, e-commerce web page using ReactJS.
- Maintained comprehensive documentation, including code, API documentation, and deployment environment.
- Optimized the application state management, resulting in a 20% increase in overall performance and user satisfaction.
- Utilized project management tools like Agile, Scrum, and JIRA and was able to troubleshoot problems on various projects.
- Collaborated with the team to implement new features, reducing page load time by 15%.

PROJECTS

Hospital Portal | *Java, Spring Boot, React JS, TypeScript, MySQL*   **Sep'24**
- Developed a secure, high-performance full-stack microservice application using Spring Web Flux.

Online election System | *React, Material UI, Redux, Git*   **Jan'23**
- Developed a responsive Single-Page Application for election system, enhancing user experience and data retrieval.

Credit Card Fraud Detection | *Python, Pandas, NumPy, Matplotlib, Seaborn*   **Dec'22**
- Implemented a Fraud Detection model with KNN yielding 94% accuracy.

Breast Cancer Prediction | *Python, Pandas, NumPy, Matplotlib,* Seaborn   **Oct'22**
- A breast cancer prediction model, achieving 96% accuracy and 95% cross-validation score with Random Forest.

SKILLS

- **Programming Language:** C/C++, Java, JavaScript, TypeScript, Python, SQL
- **Web Development:** HTML, CSS, React, Redux, Spring MVC, Spring Boot, Spring Web Flux, Spring Security, JUnit, Kafka, Redis, Node JS, Delphi, REST API, CI/CD, Kibana, Git
- **Database/Cloud:** AWS, GCP, SQL Server, MongoDB, PostgreSQL, Docker, Kubernetes
- **Machine Learning/Data Analysis:** Python- SciKit Learn, Seaborn, Pandas, NumPy, Matplotlib, Tableau, Excel, Jupyter

EDUCATION

Master of Science in Computer Science-Wichita State University, Kansas   **May'23**
Bachelor of Technology in Information Technology- Anna University, Chennai, India   **May'21**

CERTIFICATIONS

- AWS Certified Cloud Practitioner
- Meta Front-End Developer Certification
- HackerRank Advanced SQL Certification
- Machine Learning Specialization by Stanford University