Ravi Teja Varadhi

Senior Full Stack Developer

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**Summary**

* **Senior Full Stack Developer** with **8+ years** of experience in designing, developing, and deploying **scalable, high-performance applications**.
* Expertise in **React.js, Angular, Java, Spring Boot, Node.js**, and **Microservices Architecture**.
* Proficient in **Frontend & Backend Development, Cloud Computing (AWS, Azure), and DevOps**.
* Strong experience in **State Management** using **Redux, React Context API, RxJS**.
* Developed and optimized **real-time applications** using **WebSockets and data streaming**.
* Extensive experience in **CI/CD pipelines, Docker, Kubernetes, Terraform**, and cloud-based **serverless architectures**.
* Expertise in **AWS & Azure cloud services**, including **EC2, S3, RDS, DynamoDB, Lambda, API Gateway, Azure App Services, AKS, APIM**.
* **Cloud Migration Specialist** – led seamless **on-premises to AWS/Azure** migrations for multiple applications.
* Strong background in **Authentication & Security**, including **OAuth 2.0, JWT, AWS Cognito, Azure AD**.
* Experience in **Unit Testing & E2E Testing** using **Jest, Jasmine, Karma, Cypress, Selenium**.
* Adept at **Agile methodologies (Scrum, Kanban), DevOps automation, and system monitoring**.
* Excellent problem-solving, analytical, and communication skills, ensuring **efficient collaboration and project success**.

**Technical Skills**

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| **Category** | **Technologies & Tools** |
| **Frontend Technologies** | **React.js, Redux, Next.js, TypeScript, JavaScript (ES6+), React Hooks, Context API** |
|  | **Angular (12+), RxJS, Angular Material, Bootstrap, Tailwind CSS, Framer Motion** |
|  | **WebSockets, Progressive Web Apps (PWA), React Query, Lazy Loading, Code Splitting** |
| **Backend Technologies** | **Java 8+, Spring Boot, Spring MVC, Spring Security, Spring Batch, Hibernate, JPA** |
|  | **Microservices Architecture, RESTful APIs, GraphQL, WebSockets** |
|  | **Node.js, Express.js** |
| **Cloud & DevOps** | **AWS: EC2, S3, RDS, DynamoDB, Lambda, API Gateway, Cognito, CloudFront, CloudWatch, CloudTrail, IAM, Auto Scaling, Load Balancers, CodePipeline** |
|  | **Azure: App Services, AKS, Functions, SQL, DevOps, APIM, Blob Storage, Service Bus, Monitor, App Insights, Log Analytics** |
|  | **CI/CD Automation: Jenkins, GitHub Actions, Azure DevOps Pipelines** |
|  | **Containerization & Orchestration: Docker, Kubernetes (EKS, AKS), Terraform** |
| **Database Technologies** | **SQL: Oracle, MySQL, PostgreSQL, SQL Server, Amazon RDS, Azure SQL** |
|  | **NoSQL: MongoDB, DynamoDB, Firebase** |
| **Testing & Code Quality** | **Unit Testing: Jest, Jasmine, Karma, JUnit, Mockito** |
|  | **End-to-End Testing: Cypress, Selenium** |
|  | **Code Analysis: SonarQube, ESLint, Prettie** |
| **Version Control & Agile** | **Git, GitHub, GitLab, Bitbucket, SVN** |
|  | **Agile (Scrum, Kanban), Jira, Confluence** |

**Work Experience**

**Client: US Bank, Minneapolis, MN Duration: March 2024 – Present**

**Role: Senior Full Stack Developer**

**Responsibilities:**

* Developed reusable, high-performance UI components using **React.js, Redux, and TypeScript**, improving maintainability and scalability.
* Implemented **React Hooks, Context API, and Memoization**, reducing re-renders and improving performance by **35%**.
* Integrated **Redux Toolkit & React Context API**, enhancing state management and reducing boilerplate code.
* Optimized UI performance with **lazy loading, code splitting, and virtualized lists**, improving responsiveness for large datasets.
* Designed and maintained **mobile-friendly, responsive UIs** using **Material-UI (MUI) and Bootstrap**, ensuring cross-browser compatibility.
* Integrated **WebSocket’s and real-time data streaming** for live updates, improving user engagement.
* Used **React Query** for efficient data fetching and caching, optimizing API performance and reducing network requests.
* Leveraged **Next.js for SSR (Server-Side Rendering) and SSG (Static Site Generation)**, improving SEO and page load speeds.
* Developed **custom React hooks** to handle complex UI logic, ensuring cleaner and more maintainable code.
* Designed and deployed **serverless architectures** using **AWS Lambda, API Gateway**, reducing infrastructure costs and improving scalability.
* Implemented **AWS Cognito** for secure authentication and user management, enhancing access control.
* Worked extensively with **AWS services** including **EC2, S3, RDS, DynamoDB, CloudFront, and API Gateway** for high availability and scalability.
* Configured and monitored **AWS CloudWatch, CloudTrail, and AWS X-Ray** for system performance analysis and issue resolution.
* Utilized **AWS Auto Scaling and Load Balancers (ALB, NLB)** to optimize traffic distribution and failover handling.
* Managed **Docker containerization and Kubernetes orchestration**, ensuring high availability and seamless scalability.
* Automated deployment pipelines using **Jenkins, GitHub Actions, and AWS Code Pipeline**, enabling continuous integration and deployment (CI/CD).

**Client: USPS, Washington, D.C. Duration: Jan 2022 – Feb 2024**

**Role: Senior Full Stack Developer**

**Responsibilities:**

* Developed, optimized, and maintained **Angular 12+ applications** using **TypeScript** and **RxJS** for **high-performance UI development**.
* Built **modular, reusable, and dynamic Angular components & services**, enhancing **maintainability** and **reducing code duplication**.
* Implemented **Reactive and Template-driven Forms** to manage **complex form validations efficiently**.
* Integrated **Angular front-end** with **Spring Boot RESTful APIs**, ensuring **seamless communication**.
* Applied **Lazy Loading & Code Splitting** to enhance **performance** and **reduce initial load time**.
* Utilized **Angular Guards & Interceptors** for **secure API request handling** and **improved authentication flow**.
* Managed **authentication & authorization** using **JWT & OAuth 2.0**, strengthening **application security**.
* Optimized UI performance with **Change Detection Strategies** and **OnPush rendering**, improving **load times**.
* Designed **responsive, mobile-friendly UIs** using **Angular Material & Bootstrap**, ensuring **cross-browser compatibility**.
* Configured **CI/CD pipelines** with **Jenkins & Git**, enabling **automated testing and deployment**.
* Conducted **unit testing** using **Jasmine & Karma**, ensuring **high code quality and test coverage**.
* Led **cloud infrastructure migration** from **Azure to AWS**, improving **scalability, reliability, and performance** while **optimizing resource utilization**.
* Migrated **Spring Boot applications, databases, and storage** from **Azure to AWS**, implementing **networking, IAM, and security best practices** to **minimize downtime**.
* Converted **Azure Functions** to **AWS Lambda**, enabling **serverless computing** with **cost-efficient execution**.
* Re-architected **Azure SQL & Blob Storage** to **Amazon RDS & S3**, ensuring **seamless data transition** with **minimal service disruption**.
* **Refactored Azure DevOps pipelines** to **Jenkins-based CI/CD**, streamlining **deployment automation** and **improving efficiency**.
* Used **Azure Monitor & Log Analytics** for **real-time application monitoring** and **debugging**, ensuring **proactive issue resolution**.

**Client: Avhana Health, Baltimore, MD Duration: May 2018 – Dec 2021**

**Role: Full Stack Developer**

**Responsibilities:**

* Developed **highly reusable, modular React components** using **React Hooks** (**useState, useEffect, useContext, useMemo**), improving **maintainability and performance**.
* Built **dynamic, responsive UI applications** with **React.js, Redux, HTML5, CSS3, jQuery, and Bootstrap**, ensuring **cross-browser compatibility**.
* Optimized **React.js performance** using **React Profiler, memoization, lazy loading, and code splitting**, reducing **UI lag** and **improving page load speeds by 40%**.
* Implemented **React Router** for **SPA navigation**, ensuring a **seamless user experience**.
* Managed **state efficiently** using **Redux Toolkit & Context API**, reducing **unnecessary API calls** and **improving performance**.
* Developed **custom React Hooks** and **Higher-Order Components (HOCs)** to streamline **code reuse** and **improve application logic**.
* Integrated **WebSocket & real-time data streaming** into **React applications**, enhancing **user engagement and responsiveness**.
* Improved **UI animations** using **Framer Motion** and **React Spring**, ensuring **smooth transitions** and **enhanced user experiences**.
* Ensured **WCAG-compliant accessibility** using **ARIA attributes** and **best practices**, creating **inclusive applications**.
* Integrated **Azure cloud services**, leveraging **Azure App Services, Azure SQL, Azure Functions, and Azure Active Directory (Azure AD)** to improve **scalability and operational efficiency**.
* Led **cloud infrastructure migration** from **on-premises to Azure**, optimizing **cost and resource allocation** while ensuring **minimal downtime**.
* Migrated **Spring Boot applications, databases, and CI/CD pipelines** from **on-premises to Azure Kubernetes Service (AKS) and Azure DevOps**, enhancing **scalability and automation**.
* Designed and implemented **API Gateway** with **Azure API Management (APIM)** to **optimize and secure microservices communication**.
* Deployed **Spring Boot applications** on **Azure App Services** and **Azure Kubernetes Service (AKS)**, integrating **Azure SQL, Blob Storage, and Azure Service Bus** for **high availability and reliability**.
* Configured **Azure DevOps CI/CD pipelines**, ensuring **automated builds, testing, and deployment** for **React.js and Spring Boot applications**.
* Used **Azure Monitor, Application Insights, and Log Analytics** for **real-time monitoring, error tracking, and performance analysis**.
* Managed **Docker containerization** and **Kubernetes orchestration** on **Azure Kubernetes Service (AKS)**, ensuring **scalability and high availability**.

**Client: Red Bus, Hyderabad, India Duration: Feb 2017 – April 2018**

**Role: Full Stack Developer**

**Responsibilities:**

* Developed and optimized **Angular 12+ applications**, ensuring a **responsive** and **high-performance UI**.
* Built **modular, reusable, and scalable Angular components & services**, improving **maintainability** and **reducing code duplication**.
* Integrated **Angular front-end** with **Spring Boot RESTful APIs**, ensuring **seamless data communication** and **efficiency**.
* Used **Angular Dependency Injection (DI)** to manage **services**, improving **code reusability** and **testability**.
* Implemented **Lazy Loading & Code Splitting**, improving **initial page load speed by 40%**.
* Designed **custom Angular Pipes & Directives** to enhance **user experience** and **functionality**.
* Built **Reactive Forms & Template-driven Forms** for **complex user input handling** and **real-time validation**.
* Applied **debouncing and throttling techniques** to optimize **API request handling** and **performance**.
* Used **Angular Guards & Interceptors** to handle **authentication, authorization**, and **API request optimizations**.
* Developed **Progressive Web App (PWA) features** using **Angular**, improving **user engagement** and **offline support**.
* Designed **Angular animations** using **Angular Animations API**, enhancing **UI/UX interactivity**.
* Deployed **Angular applications** on **AWS S3**, ensuring **high availability** and **scalability**.
* Used **AWS EC2** for **backend deployment**, improving **cloud performance** and **operational efficiency**.
* Configured **AWS Lambda functions** to enable **serverless execution** and **improve backend efficiency**.
* Monitored **application logs** using **AWS CloudWatch** and **ELK Stack (Elasticsearch, Logstash, Kibana)** for **real-time debugging** and **analysis**.
* Implemented **AWS IAM roles & policies**, ensuring **secure access control** and **resource management**.
* Managed **Docker containers** for **front-end and back-end applications**, improving **scalability** and **deployment efficiency**.
* Configured **CI/CD pipelines** with **Jenkins & GitHub**, ensuring **automated builds** and **smooth deployment**.
* Leveraged **AWS RDS** to optimize **database performance, backups, and high availability**.

**Education**

**Master’s in information technology management**  
Concordia University St. Paul, Minnesota