Mayur Shivakumar

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Technical Skills

Programming Languages: Java, Python, JavaScript, TypeScript, C#, SQL, HTML5, CSS3
Frontend & UI Libraries: React, Redux, Angular, RxJS, SASS, Tailwind CSS
Frameworks: Node.js, Spring Boot, GraphQL, Express.js
Databases: PostgreSQL, MS SQL Server, MySQL, MongoDB
Cloud Services: AWS, Azure, Docker, Kubernetes, Microservices, Lambda
Tools & Others: Jenkins, SDLC, XML, JSON, MVC, GIT, Swagger, Agile, Design Patterns

Experience

California Polytechnic State University, San Luis Obispo — **Jan 2023 - Aug 2024**
Full Stack Software Engineer | React, Spring Boot, TypeScript, Java, Figma, Selenium — California, USA

- **Website Revamp**: Rebuilt the Robert E. Kennedy Library website, optimizing user experience, improving search engine optimization by 20%, and doubling student engagement.
- **Team Leadership**: Supervised a team of four content writers and designers, balancing leadership with hands-on development and effective communication to meet critical project milestones and deliverables.

FEMR — **Sep 2023 - Mar 2024**
Software Engineer Intern | Java, Spring Boot, Scala, MySQL, JUnit, Play Framework — California, USA

- **Internationalization (i18n) of fEMR System**: Led internationalization for global accessibility by translating the UI, enhancing database architecture for multi-language support, developing backend services, and supporting 38 languages.

Epicor — **Jan 2020 - Aug 2022**
Software Engineer | React, Spring Boot, Java, TypeScript, Redux, GraphQL — Bangalore, India

- **Cloud Application Development**: Spearheaded the development of the Kinetic ERP Cloud Application (SaaS) from ideation to launch; collaborated with cross-functional teams to deliver a product that increased the customer retention rate.
- **No-Code Solution**: Engineered the Epicor Design Studio web application builder, empowering clients to create and customize apps without coding, reducing development time by 50% and cutting costs.
- **Runtime Engine Creation**: Built Epicor MetaFx, a web-client runtime engine that decodes JSON files and generates single-page web applications, reducing data-intensive web page loading times to under 500 milliseconds.
- **Site Reliability Engineering (DevOps)**: Strengthened Azure Build Pipelines and improved operational workflow efficiency through robust CI/CD processes, achieving nearly 100% system uptime and ensuring high availability and resilience.
- **Bug Basher**: Resolved over 80 high-priority issues in 45 days, enhancing the product's quality and improving the user experience at release, earning the Best Employee of the Quarter award.
- **API Optimization**: Improved the effectiveness of data-heavy EDD APIs, reducing the response time for REST requests from 2 mins to 15 secs.
- **Advanced Service Rendering**: Architected a suite of services for EDD to render scales, axes, geometries, and animations across a single SVG surface using D3.js, reducing rendering time to less than one second.
- **Performance Analysis Tool**: Created a Bullet Chart - Key Performance Indicator for EDD product, enabling stakeholders to analyze performance and report growth metrics, reducing stakeholder's support issues by 30%.
- **Process Optimization and Mentorship**: Streamlined the onboarding process to one month and mentored a team of five associates to contribute meaningful enhancements to the Kinetic ERP project.

Projects

Anomaly Detection in Dynamic Cloud Environments | LSTM, RNN, SVM, AWS EC2, Docker — **Sep 2023 - Present**

- Graduate Thesis: Deployed cloud applications on AWS EC2, utilized predictive models for anomaly classification, achieving 93% accuracy, and applied the KS Test to evaluate model resilience against data drift.

Food Genie | Kotlin, RESTful API, Firebase, Android Jetpack — **Apr 2023 - Jun 2023**

- AI Recipe Recommender App: Crafted a Kotlin-based mobile app with an AI agent using ChatGPT APIs for personalized recipe suggestions, integrating Firebase for authentication and Android Jetpack for superior UI/UX and compatibility.

EduSelect AI | Angular, Node.js, MongoDB, Express.js — **Sep 2022 - Dec 2022**

- NLP Powered Tool: Pioneered an AI web agent utilizing NLP techniques like BERT, DistilBERT, KNN, and MLP to analyze student hobbies and recommend Cal Poly majors with 74% accuracy in personalized academic guidance.

Education

California Polytechnic State University, San Luis Obispo — **Sep 2022 - Aug 2024**
Master of Science in Computer Science (GPA: 4.0) — San Luis Obispo, CA, USA