

MAYUR SHIVAKUMAR

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Education

California Polytechnic State University, San Luis Obispo

Sep 2022 - Jun 2024

Master of Science in Computer Science (GPA: 4.0)

San Luis Obispo, CA, USA

Experience

California Polytechnic State University, San Luis Obispo

Jan 2023 - Present

Full Stack Software Engineer | React, Node.js, TypeScript, Figma, Selenium

California, USA

- **Website Revamp:** Rebuilt the Robert E. Kennedy Library website using React, 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.

Team FEMR (Fast Electronic Medical Records)

Sep 2023 - Mar 2024

Full Stack Software Engineer | Java, J2EE, Scala, MySQL, JUnit, Play Framework, Jira

California, USA

- **Internationalization 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 | Angular 16, TypeScript, C#, ASP.NET Core, Node.js, React, 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.
- **Component Design:** Developed and designed 25+ reusable, modular components for the Platform-UX Framework, increasing development efficiency for all Epicor products.
- **Performance Analysis Tool:** Created a Bullet Chart - Key Performance Indicator for EDD product, enabling stakeholders to analyze performance and report growth metrics, reducing stakeholders 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 | Artificial Intelligence, Kotlin, REST 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 | BERT, DistilBERT, KNN, MLP, Angular 16, Python

Sep 2022 - Dec 2022

- NLP Powered Tool: Pioneered an AI 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.

Technical Skills

Programming Languages: JavaScript, Typescript, Python, Java, C#, C++, HTML5, CSS3

Frontend & UI Libraries: React, Angular, React Native, Redux, Tailwind CSS, FastAPI, Web3, REST API

Frameworks: .NET, ASP.Net Core, Node.js, Express.js, Spring Boot, Django, Flask

Databases: SQL, GraphQL, PostgreSQL, MongoDB, Oracle, Redis, MySQL, MS SQL Server, NoSQL

Cloud Services: AWS, Azure, Docker, Kubernetes, Microservices, Lambda

Operating Systems: Linux/Unix, MacOS, iOS, Windows

Tools & Others: Jenkins, Terraform, SDLC, XML, JSON, MVC, GIT, Swagger, Agile, Design Patterns