Kamal Kotgire

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Technical Skills

- **Languages**: HTML5, CSS3, Sass, C, Java, TypeScript, JavaScript, SQL, Python, JSON / XML, Linux
- **Frameworks**: Node.js, React, Express, Next.js, Vue.js, Angular, Spring Boot, Material-UI, shadcn, Balsamiq, Moqup, Figma
- **Database**: MongoDB, MySQL, PostgreSQL, DBMS, Redis, Cloudinary, AWS RDS, DynamoDB, PowerBI
- **Cloud**: AWS, Terraform, IaC, Docker, DigitalOcean, .NET, Bash
- **Dev Tools:** Git, Visual Studio, CI/CD pipelines, Agile, JIRA, RabbitMQ, GitHub, Postman, Slack, Confluence
- **Testing Tools:** Selenium, Junit, SonarQube, Jest, Postman, Manual testing, Unit testing, Gherkin, JMeter, Cypress, Playwright

Experience

IpserLab LLC, California, USA   **December 2024 – Present**

Software Engineer Intern, Dhorobha

- Developed 5+ RESTful APIs using **Node.js** and **Express**, securing endpoints with **OAuth** and **JWT**, and enforcing **Passport.js** for robust role-based access control, enhancing system security and performance. Utilized **pg-pool** for efficient connection pooling in **PostgreSQL**, significantly improving database performance and optimizing resource management.
- Spearheaded rapid development and iteration of frontend features using **React**, implementing a modular **component-based architecture**, **server-side rendering (SSR)** for enhanced performance, and **Redux** for efficient state management.
- Adapted swiftly to evolving product requirements by prototyping UI components, conducting A/B testing, and integrating real-time user feedback within **agile development cycles**, accelerating feature deployment by 40%.

Qtenent Technologies Pvt Ltd, India   **July 2022 - August 2023**

Software Developer

- Engineered a modern web application using **React, TypeScript, SCSS**, and **RESTful APIs**, implementing **microservices architecture** and **state management** with **Redux**, which improved application scalability and maintainability.
- Developed and integrated over **25 RESTful APIs**, facilitating seamless data exchange between the front-end and back-end and resulting in a 40% reduction in data fetching times and enhancing overall user experience.
- Optimized CSS delivery with **Tailwind CSS's JIT** mode and **PurgeCSS**, reducing the final CSS file size by over 70%, from 600KB to 150KB, which improved load times from 4 seconds to 1.5 seconds and reduced initial page render time. By only generating the classes used in the application, significantly decreased bandwidth usage, leading to better user experience

Education

Northeastern University, Boston, MA, USA   **May 2025**
Master of Science in Software Engineering Systems

Projects

GreenStock Insights | Link   **December 2024 – February 2025**

- Developed an intelligent stock ranking platform from scratch implementing **Greenblatt's Magic Formula**, a quantitative investment strategy that ranks stocks based on earnings yield and return on capital (ROC**)**. Engineered a **Node.js backend** with **MongoDB** and **Redis** caching**,** utilizing **Financial Modeling Prep APIs** to retrieve real-time financial data.
- Leveraged advanced UI components with **shadcn**, and incorporated interactive animations using **framer.motion**, **Lucide-react** for iconography, and **Recharts** for dynamic data visualizations, delivering a responsive and engaging user experience.
- Enhanced system performance and scalability using **Nginx** as a reverse proxy and integrating **GraphQL and WebSockets** for dynamic updates, with the backend deployed on **AWS EC2**. Implemented **Git-based Continuous Deployment (CD)** automating deployments and eliminating manual build uploads reducing deployment time by 60% and enhancing efficiency.

2-Tier AWS Infrastructure | Link   **May 2024 – September 2024**

- Designed and deployed a two-tier, highly available AWS architecture using **Terraform**, implementing Infrastructure as Code (**IaC**) for automated provisioning. Achieved 99.99% uptime with multi-AZ database hosting, optimized load balancing via **ELB**, and secure **VPC** configurations with **IAM** roles and **CloudWatch** monitoring, reducing downtime by 25%
- Developed a scalable solution with an **S3-hosted** static website integrated with **CloudFront** for low-latency caching, automated backups and custom domain management via **Route 53**. Enabled dynamic data access using **PostgreSQL** database on **Amazon RDS**

Uplift: Skills to Opportunities | Link   **March 2024 - May 2024**

- Developed a web application using **Next.js** on **React** for the front end and **Node.js** with **MongoDB** (**NoSQL**) through **Mongoose**, with around **10 REST APIs** enabling efficient data management, schema validation, and robust access control, resulting in a 40% reduction in data retrieval times.
- Integrated **Stripe** as a secure payment gateway, facilitating seamless transactions. Enhanced the user interface with **Material-UI** and **Tailwind CSS** along with **Bootstrap** components for a modern, responsive design reducing initial rendering time from 4 seconds to 1 second.
- Optimized platform performance and security by implementing **Redis** for caching, **Redux Toolkit** for state management, and **OAuth** for secure user social logins authentication.