

# Prashay Mehta

Software Engineer - San Francisco, CA

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## TECHNICAL SKILLS

Javascript, Typescript, Python, Node.js, React, Next.js, Express.js, Redux, Webpack, Git, Jest, NoSQL (MongoDB), SQL (PostgreSQL), CI/CD (Github Actions), Docker, AWS (EC2, S3, RDS), REST API, HTML5/CSS, Tailwind CSS, Figma

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## PROFESSIONAL EXPERIENCE

**Software Engineer** | Ludwig VS - OS Labs

2023-Current

- Engineered an innovative WCAG Accessibility Dashboard using React and Hooks to enable real-time monitoring of web interfaces within an IDE, resulting in a 40% decrease in reported accessibility issues by engineering teams.
- Used TypeScript and a Node.js runtime to design algorithms to parse the DOM and detect 85+ web accessibility violations, reducing technical debt by identifying accessibility issues early in development.
- Developed Code Analysis Integration API using Express.js, serving as proxy between a VS Code IDE and database for comprehensive web accessibility analysis, resulting in a more scalable and fast identification of accessibility issues.
- Implemented MongoDB as a NoSQL database, establishing data management for code analysis; improved storage and retrieval efficiency by 60% and facilitated seamless adaptation to changing data requirements.
- Deployed SPA leveraging Docker and AWS to create a lightweight, isolated environment and host product website on a highly scalable, dynamic cloud infrastructure with high availability, performance and flexibility.
- Established unit and integration testing with Jest and React Testing Library, expanding frontend testing coverage by 100%, which facilitated faster development and scalability by reducing runtime errors.

**Software Engineer** | EBMUD

2020-2023

- Engineered Flask API with React-Redux integration to pioneer dynamic Dashboard Portal; utilizing actions and reducers to streamline management of centrally stored state, resulting in increased user attainability of job metrics.
- Optimized I/O-bound operations using NumPy and Pandas to extract datasets from AWS S3 buckets and precisely format and export response into CSV for comparative analysis, enhancing data retrieval workflow efficiency by 70%.
- Analyzed large-scale geodatabases through SQL queries, identifying system defects to expedite data retrieval and asset repairs; directly contributed to minimizing wastewater spillage into the San Francisco Bay.
- Architected a PostgreSQL database with strict schemas that adhered to ACID-compliant principles and successfully ensured a secure, consistent, and durable storage for critical information for an application.
- Integrated JWT authentication with Bcrypt password hashing in an Express.js middleware design pattern to efficiently store session information and significantly bolster security by safeguarding user passwords.

**Civil Engineer** | EBMUD

2015-2020

- Oversaw long term engineering projects as lead technical engineer coordinating with a cross-functional team of 8-10 engineers to design complex infrastructure and deploy project deliverables within budget and schedule.
- Accelerated engineering design efficiency by developing Visual Basic scripts to streamline engineering design calculations and reduce overall production error by 20%.

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## RECENT PROJECT

**OpenForge** - DeveloperWeek 2024 Hackathon Challenge Winner

- Designed smooth and responsive UI/UX of social media platform, leveraging Tailwind CSS and Next.js for Static Site Generation to pre-render components and reduce bundle size by 50%.
- Utilized asynchronous database fetching and Next.js server-side APIs for fast pagination, filter, and search capability.
- Achieved award-winning implementation of OAuth and user management integration to fortify user security.

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## EDUCATION

**University of California, Berkeley** | B.S. Engineering

Computer Science Programming for Scientists & Engineers, Engineering Data Analysis, Engineering Project Management