

Sumedh Deepak Patkar

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Software Engineer with 3+ years of experience specializing in full-stack development across Python, Java, and JavaScript ecosystems. Expert in optimizing API performance, enhancing user experience, and automating software workflows.

EXPERIENCE

Oracle, Santa Clara, CA

Software Engineer

Feb 2025 – Present

- Engineered an **undo/redo mechanism** for data grid modifications (add/update/delete/replace rows) using JavaScript, leveraging client-side delta tracking for intelligent pre-save restoration and API payloads for post-save backend rollbacks, significantly improving user confidence and edit safety for 400+ enterprise customers
- Built **telemetry and usage analytics** for 7 key workflows by capturing page/subpage/subtab context through telemetry API calls, enabling accurate measurement of **feature adoption** and data-driven decisions by product and sales teams
- Optimized core data grid loading API integration by replacing a fragmented multi-stage polling system with a **single-request architecture**, reducing backend round-trips from **56 to 1** and cutting network overhead by **98%**
- Introduced the frontend's first **unit testing suite (0 → 50+ tests)** and established testing practices, improving code reliability and reducing regressions
- Transformed a mouse-heavy editable data grid into a **keyboard-first interface** with **Excel-like inline editing** (Enter to edit, Ctrl+S to save), significantly improving workflow speed, accessibility, and user experience

WhileOne Techsoft, Pune

Software Engineering Intern

May 2023 – Aug 2023

- Designed a KNN model to predict CPU performance on Graviton processors for AWS, reducing required simulations by **35%**
- Built a full-stack web application using Django, React for on-demand IPC prediction and visualization, enabling data upload, model inference, and visual analysis for end users

Siemens DISW, Pune

Software Engineer

Jun 2020 – Jul 2022

- Engineered a **full-stack automation solution** using Java backend services, batch scripts, and React frontend components that consolidated a multi-step model simulation workflow (upload → run → retrieve results) into a **single-click process**, significantly reducing manual effort and improving engineer productivity
- Built **reusable React components** for the web client of a major PLM system, delivering modernized UI features for change management and workflows to **3 different cross-functional teams**
- Ensured **WCAG 2.1 compliance** for core modules, enhancing accessibility for 4,700+ global customers and meeting mandatory regulatory standards for large-scale government and enterprise contracts

Marvell Semiconductor, Pune

Software Engineering Intern

Jul 2019 – Jun 2020

- Created FACTs, a data visualization webapp using flask, **automating 90%** of benchmarking team's tasks [[github](#)]
- Implemented a dashboard with 24 graphs using Plotly.js with advanced filtering capability and download options, assisting **100+ customers** internally get insights on benchmark runs
- Refactored existing data processing algorithm, **making it 25x faster**, reducing time from **250 to 10 seconds**
- Improved report generation feature with a fast caching mechanism, **slashing time by 96.66%** (from 60 seconds to 2)

SKILLS

- Languages:** Python, Javascript, Typescript, Java, C++, Go
- Web Development:** Django, Node.js, Express, ReactJS, Next.js, Bootstrap, GraphQL, Kafka, gRPC
- Databases:** MySQL, PostgreSQL, MongoDB
- DevOps:** Kubernetes, Docker, Ansible, Jenkins, AWS

EDUCATION

NC State University

Master of Computer Science

May 2024

Pune University

Bachelor of Computer Engineering

May 2020