SOHAM KHADE

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EDUCATION

University of Southern California   January 2023 - December 2024
Master of Science in Computer Science, GPA: 3.81/4
Coursework: Machine Learning, Natural Language Processing, Database Management Systems, Web Technology

Savitribai Phule Pune University   August 2018 - August 2022
Bachelor of Engineering, Computer, GPA: 9.18/10

TECHNICAL SKILLS

- Languages: **JavaScript**, **TypeScript**, **Python**, Java, C/C++, PHP
- Web & App Frameworks: **React.js**, **Next.js**, **Node.js**, **Express.js**, Django, Flask, SpringBoot, Swift/UIKit, HTML-CSS
- Cloud Platforms: **AWS** (Lambda, EC2), Google Cloud (GCP), Azure
- Databases: **MongoDB**, **MySQL**, PostgreSQL, AWS Redshift & S3
- Developer & DevOps Tools: Git,GitLab, Jest, Docker, Kubernetes, Postman, React Testing Library, GitHub Actions, Jenkins, CI/CD Pipelines
- Machine Learning/AI: RAG, Tensorflow, PyTorch

EXPERIENCE

Software Engineer, Rhombus Power   September 2025 - Current
- Resolved **critical UI** issues in PHP CodeIgniter, improving user experience and reducing front-end errors on client end
- Collaborated across frontend and backend teams to troubleshoot and **optimize** REST **API** calls, enhancing application reliability and performance
- **Designed** and **implemented** a new Modal feature using **Carbon Design** components, significantly improving user interaction and overall dashboard usability
- Authored and implemented a **Page Object Model** (POM) testing framework for React applications, improving unit test maintainability, testing efficiency, and overall UI code quality.

Software Engineer, Relyion Energy   April 2025 – September 2025
- Developed a real-time solar power plant dashboard using Next.js and TypeScript to monitor **energy generation** and **system health**, improving maintenance and operational efficiency by **10%**
- Built a BESS monitoring module with Node.js and real-time data streams to track **charge cycles** and **state-of-health**, optimizing energy storage performance by **10-20%** through more efficient data processing
- Created a web app to visualize **CAISO energy demand trends** using Django, Python, and JavaScript, enhancing energy forecasting with real-time and historical data
- Developed a platform to track **Henry Hub natural gas prices**, providing real-time data and trends to support market analysis and forecasting for informed trading decisions
- Built an **automated** natural gas price prediction web app using Flask and machine learning models, deployed via **Docker**, enabling a **self-maintaining** retraining **pipeline** for continuous model updates and accurate futures contract **forecasting**

Software Engineer Intern, Persistent Systems   January 2022 - July 2022
- Transitioned from web development to Java Full-Stack and MERN Stack, designing dynamic applications that **enhanced performance** by up to **20%** and **optimized user experience** across multiple projects
- Designed and implemented **REST** and **SOAP APIs** in TIBCO BusinessWorks, enabling **seamless communication** between applications and **improving system integration by 15%**
- Utilized BW6's connectors to **transform data formats** and ensure **data consistency**, **optimizing business processes** through smooth data exchange across systems

Software Engineer, Debugged.exe   January 2021 - October 2021
- Developed a dashboard to streamline subscription management and user information tracking
- Decreased loading latency of dashboard by 27.3% and used by 1K+ users on cross-platform devices
- Used redux to manage three levels of user access to portal