

# 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: Database Management Systems, Web Technology, Information Retrieval and Web Search Engines

Savitribai Phule Pune University

August 2018 - August 2022

Bachelor of Engineering, Computer, GPA: 9.18/10

Honors Degree in Artificial Intelligence and Machine Learning

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## TECHNICAL SKILLS

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

Software Engineer, Relyion Energy

April 2025 - Current

- 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

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
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## ACADEMIC PROJECTS

Stock Search App (Android | MongoDB | GCP)

March 2024 - April 2024

- Developed an **Android** application for searching stocks with real-time data using **finnhub.io** APIs
- Implemented graphical stock price visualizations, stock news, and insights for enhanced user experience
- Allowed users to manage watchlists and portfolios, with data stored securely in MongoDB Atlas
- Deployed application on **Google Cloud platform** using app engine service

SkyCast (Android | OpenWeather API)

December 2023 - January 2024

- Developed an **Android** Weather App using Kotlin and Jetpack Compose, fetching real-time weather data from the **OpenWeather API**
- Utilized **Retrofit** for network requests and **Moshi** for efficient JSON parsing to display accurate weather data
- Integrated **Fused Location Provider API** for GPS-based weather updates and **Room Database** for offline data storage and retrieval
- Designed a dynamic UI with Jetpack Compose Charts, ensuring compatibility with Dark Mode and adaptive layouts