

Abhinav Singh

310-227-9022 | abhinav.csgrad@gmail.com | linkedin.com/in/iabhi4 | github.com/iabhi4

EDUCATION

California State University, Fullerton

Master of Science in Computer Science

Fullerton, CA

Aug. 2023 – May 2025

EXPERIENCE

Software Engineer 1

AlertEnterprise

Sep. 2021 – Feb. 2023

Chandigarh

- Created RESTful APIs and distributed middlewares as micro services to attain high performance cloud services, served 100+ users with diverse business requirements
- Handcrafted lightweight HQL queries to reduce the complexities of the existing ones by 25 percent, while also enhancing the efficiency of Java code through strategic refactoring
- Conceptualized and implemented multiple Jasper Reports, both API and query based, decreasing manual effort by 60 percent and enabling real time data visualization for better decision making
- Fine-tuned product screens using Angular by integrating web caching techniques, resulting in a 20 percent improvement in page load efficiency
- Collaborated fluidly in an agile setting, ensuring the QA and Documentation teams were equipped with thorough documentation for the functionalities of the code

Software Engineering Virtual Experience

JP Morgan Chase and Co.

April 2021 – May 2021

Remote

- Engineered a robust Python solution to seamlessly interface with the stock price data feed, empowering traders with live market information

PROJECTS

Credentials Manager | *Flutter*

Dec. 2022 – Jan. 2023

- Implemented a secure credentials manager in Flutter, validating heightened password ownership and bolstered user trust through encryption and local storage (Shared Preferences)
- Built a user-friendly feature for exporting and importing hashed credentials, ensuring seamless data migration and import from external files for users

TitanEnrollment API | *Python, FastAPI, Krakend, DynamoDB*

Aug. 2023 – Nov. 2023

- Developed the backend infrastructure of my college for overseeing class enrollments utilizing FastAPI
- Performed role-based authentication with JWT tokens leveraging Krakend and employed LiteFS for the management of database replicas
- Applied Redis's Sorted Set feature to handle class waitlists, coordinating enrollment notifications sent to webhooks/emails via RabbitMQ

Voting on Blockchain | *Solidity, React*

Apr. 2024 – May 2024

- Engineered a comprehensive online voting system on the blockchain, featuring dynamic contract deployment, real-time voting analysis, and advanced identity verification to ensure secure and transparent elections
- Developed an interactive React.js UI and successfully deployed the smart contracts on the Sepolia testnet, enhancing user engagement and ensuring reliable system performance through thorough testing

1Fitness | *React, Express, Node, PostgreSQL*

June 2024 – Present

- Created a PERN-based Fitness Tracker, facilitating users to manage workouts, track fitness activities, and set goals, featuring secure authentication and insightful data visualization
- Integrated Openfood facts API to track macros by smoothly incorporating food information

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS

Frameworks: Flutter, FastAPI, React, Node.js, JUnit, SpringBoot

Developer Tools: Git, Google Cloud Platform, VS Code, Postman, Fiddler

Libraries: pandas, NumPy, Matplotlib, scikit-learn