Sanchit Bhargava

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EDUCATION

Stony Brook University | Stony Brook, NY
Master of Science in Computer Engineering; GPA: 3.9/4.0 | *Aug. 2022 – Dec. 2023*
Courses: *Computer Networks and Algorithms, Data Structures, Scientific Programming, Network Security, Quantum Computing*

Thapar Institute of Engineering and Technology | Patiala, India
Bachelor of Engineering in Software Engineering; GPA: 7.9/10.0 | *Aug. 2015 – July 2019*
Courses: *Databases, Software Engineering, Artificial Intelligence, Operating System, OOPS, Data Analytics and Visualization*

SKILLS SUMMARY

Languages:	Java, C, C++, Python, Solidity, Kotlin, SQL
Databases:	MongoDB, MySQL, Postgres, SQLite
Tools:	SpringBoot, OpenAI, Docker, GIT, Grafana, Kafka, JIRA, Android, Kubernetes, Bitbucket

EXPERIENCE

MoneyLion | Jun 2023 – Aug 2023
Software Engineer Intern | *New York, NY*
- Architectured & implemented a high-performance **REST API** for chat completion using Java & Spring Boot. Managed significant API request volume, resulting in a remarkable 25% improvement in response time.
- Engineered GenAI chatbot with **OpenAI's LLM**, 30% accuracy improvement, 40% faster responses. Led cross-functional integration with **TF-IDF, Levenshtein** algorithms & **core NLP** models. Seamlessly integrated Streamlit for chatbot UI.
- Led a tech shift, managing 100+ Twitter accounts for filtering, curation, automation, and **SDK integration**, boosting efficiency by 70%. Seamlessly integrated Streamlit for chatbot UI and data visualization. Leveraged **AWS** infrastructure for seamless scalability and high availability.

Rapido | Aug 2021 – Aug 2022
Software Engineer | *Bangalore, India*
- Designed and implemented API Security features: **API Key Validation, Authorization, Authentication,** & **Rate Limit** for 10M+ users. Developed and maintained a highly efficient backend **REST API** automation framework with **Retrofit** library, achieving 82% use case coverage.
- Designed and optimized Docker container deployment with **Kubernetes**. Prototyped **Loki** integration into **Grafana** for real-time monitoring, serving 1M+ users in just 24 hours.
- Managed **MongoDB** lifecycle and utilized **Kafka** with Kadeck for real-time event processing, serving 10M+ users.
- Led the development of dynamic pricing **algorithms** and personalized offers, resulting in a 15% increase in customer retention rates. Introduced real-time tracking and ETA predictions, leading to a 20% increase in user satisfaction and trust.
- Implemented **Uber's Hexagonal Hierarchical Spatial Index** in the backend, resulting in a 20% increase in the precision and a 30% expansion in the reach of personalized offers.

ZS Associates | Mar. 2021 – Jul 2021
Software Engineer | *Pune, India*
- Engineered analytical metrics, leveraging **Python & SQL** to develop revenue forecasting model with 95% accuracy.

RoundGlass | July 2019 – Mar 2021
Associate Software Engineer | *Noida, India*
- Built feature-rich **Android** app, leveraging **Java, Kotlin, XML, JSON, SQLite & RetroFit**. Served 100k+ users.
- Contributed to REACH app development for **Android**, a healthcare B2B application used by 20+ companies. Developed SSO, Premium user plans, API integration, and UI from scratch.
- Implemented end-to-end automated test suites with 70% coverage, utilizing **Katalon (Selenium)** for various builds and instances. Enabled continuous monitoring, trending, and logging on **Graylog.**
- Led the **MVP development** of a healthcare solution, using **Ethereum blockchain, MedChain, Health Nexus**, and **decentralized patient records**. Ensured **API infrastructure health** for secure data flow.

RoundGlass | Jan 2019 – June 2019
Software Engineer Intern | *Noida, India*
- Contributed to **blockchain** R&D team, gaining expertise in requirement gathering, **IPFS, GIT, JIRA, Solidity, Postman,** & software scalability.
- Worked on Android app development and **AWS** URL endpoint deployment, enhancing data & system reliability.

PROJECTS

Voting Dapp- Blockchain | *Solidity, Truffle, Metamask & Javascript* | Jan 2017 – Jun 2017
- Built a scalable **Ethereum blockchain** full-stack web app for decentralized voting with 1M token supply
- Developed a smart contract to ensure secure token transfer, validate token validity, & handle failure scenarios.
- Developed and tested seamless blockchain functionality with network transactions and chain integration.