

Shubham Maheshwari

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EDUCATION

University of Southern California Master of Science in Computer Science	Aug 2022 – May 2024
Data Structures & Algorithms, Machine Learning & AI, Parallel Computing, Web Development, Applied NLP	GPA: 3.87/4.0
Manipal University Jaipur B.Tech. in Computer Science Engineering	July 2018 – July 2022
Object Oriented Programming, Database Management, Computer Architecture, Networks, Operating Systems	GPA: 9.5/10.0





SKILLS

Languages & DBs:	Python, C/C++, Java , JavaScript, SQL, HTML/CSS, TypeScript, MySQL , MongoDB, PostgreSQL
Web Frameworks:	FastAPI, Flask, React , Spring Boot, Node.js, Django, Angular, REST
Tools & Technologies:	Git , Linux, Docker , Kubernetes, AWS , Jenkins, Auth0, Jira, Agile, Selenium, Kafka, Apache Storm
Relevant Skills:	Machine Learning, Parallel Computing , Distributed Systems, Cloud Computing , DevOps, System Design

WORK EXPERIENCE

Arista Networks Software Engineer Intern	May 2023 – Aug 2023
<ul style="list-style-type: none">Optimized CI/CD pipeline by updating Jenkins and GitHub Actions, resulting in a significant increase in team productivityMigrated unit tests framework from Robot to Python pytest, reducing cross-repository dependencies and enhancing workflowsAccelerated Jenkins pipeline execution by 16% through strategic test framework migration and comprehensive optimization	
Flipkart Software Developer Intern	Jan 2022 – Jun 2022
<ul style="list-style-type: none">Redesigned a scalable communication system in Scala, updating 4 Apache Storm topologies and Apache Kafka Pipelines, while strengthening the security and handling of sensitive dataEnhanced legacy codebase by extending the archival system for message storage, resolving bugs & improving system reliabilityLed cross-functional teams in adopting the new system architecture, crucial for impending IPO readiness	
CrowdShakti Backend Developer Intern	Aug 2021 – Dec 2021
<ul style="list-style-type: none">Refactored the backend architecture of a career portal using GraphQL, FastAPI and Auth0, significantly improving scalability and authentication to support over 50 companiesDeveloped automated data scraping pipelines leveraging Python Selenium and Playwright libraries, achieving 95% efficiencyEngineered backend with RESTful APIs for advanced facial recognition albums using DeepFace, boosting user experience	

PROJECTS

Inventory Management  FastAPI, React, Auth0, Docker, PostgreSQL, AWS	May 2024 – Aug 2024
<ul style="list-style-type: none">Engineered a scalable microservices-based web application with 3 backend services, containerized using Docker, stored in ECR, and orchestrated on AWS ECS, leveraging Secrets Manager for credential storage and S3 for environment file managementUtilized Lambda functions for API composition, API Gateway for routing, and RDS (PostgreSQL) as the database serviceDesigned and deployed the front end with React on AWS Amplify, secured with OAuth2.0 and OIDC via Auth0	
Parallel Stock Trading System  C++, Multithreading, Parallel Programming	Sep 2023 – Dec 2023
<ul style="list-style-type: none">Created a high-performance parallel stock trading system with a smart order routing algorithm to minimize latencyConstructed a multi-threaded architecture with thread pooling, utilizing the producer-consumer problem modelReduced latency by 50ms via parallelization in algorithm and boosted order execution efficiency by 64% through thread pooling	
Event Finder  Flask, Node.js, Express, React, GCP	Jan 2023 – May 2023
<ul style="list-style-type: none">Developed a full-stack event discovery web application, integrating TicketMaster, Google Maps, and Spotify APIsImplemented responsive UI design principles to ensure seamless user experience across various devices and screen sizesBuilt web versions with React and Android app with Java, deployed on GCP App Engine with various backend frameworks	
Course Registration System  Java, MySQL, DropWizard, Jersey, GitHub, SDLC	Jan 2022 – Feb 2022
<ul style="list-style-type: none">Streamlined course registration, payments for students, grading for professors, and easy access to grade reportsFollowed the Software Development Life Cycle from Project Planning to UML diagrams, then to development and testingAdhered to industry standards in coding practices, unit testing, and Git, ensuring high-quality code and collaboration	

ACHIEVEMENTS

- Ranked 1040th globally** and among **top 100 in the US** at Meta HackerCup Round 2
- Secured 176th rank** out of thousands of participants in Leetcode Weekly Contest 406
- Achieved 3rd place** at a Multimodel AI Hackathon by Twelve Labs and AWS
- Won 1st position** in several inter-university coding competitions