Lakshita Mahna

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EDUCATION

Bachelor of Science in Computer Science   **August 2021- May 2025**
Arizona State University, Tempe, AZ | **GPA:** 3.8/4.0
Relevant Coursework: Data Structures and Algorithms, Object Oriented Programming, Operating Systems, Software testing and Validation, Data Visualization, Human-Computer Interaction, Machine learning, Artificial Intelligence, Database Management, Distributed Systems, IOS App Development, and Entrepreneurship.

SKILLS

Programming Languages: Python, Java, JavaScript
Frameworks: Flask, Spring Boot, ReactJS, NodeJS
Databases: SQL, PostgreSQL, MongoDB
Tools: Docker, Git, AWS, CI/CD, GitHub Actions, Selenium, Postman, VS Code

EXPERIENCE

Plus-Credit Ltd | Jr. Software Engineer | Tempe, AZ   **October 2024 – May 2025**
- Designed backend modules in Java and Flask for secure handling of sensitive financial data, aligning with compliance and privacy guidelines.
- Designed and deployed **RESTful APIs**, improving integration with external partners and internal components.
- Built **distributed, low-latency backend services** using PostgreSQL and Cloud Storage, enabling scalable and reliable **SaaS features** for thousands of concurrent users.
- Tuned frontend and backend performance, reducing latency by **20%** through profiling and caching strategies.
- Applied object-oriented design and Integrated GitHub Actions for automated testing and deployment, streamlining the CI/CD pipeline and reducing release errors.

Bharti Airtel Ltd | Software Engineer Intern | Remote   **June 2024 - August 2024**
- Worked on Python-based embedded software pipelines deployed on Linux environments, enhancing operational throughput.
- Integrated automation tools that interacted with system-level APIs for embedded platforms, reducing processing latency.
- Collaborated with engineering and analytics teams to build end-to-end solutions, improving reporting speed by **30%** and enhancing backend reliability.
- Refactored legacy codebases into modular, testable scripts, improving performance and maintainability for future deployments.

Arizona State University | Teaching Assistant (CS Courses) | Tempe, AZ   **August 2022 – May 2025**
- Taught core CS concepts (DSA, DBMS, OS) to 300+ students and led lab sessions on **SQL performance tuning** and **algorithm optimization**.
- Supported course delivery with real-world projects in distributed systems and query performance analysis.

TECHNICAL PROJECTS

AI-Powered Travel Planner App
- Developed a mobile travel planning app using React Native and Expo, enabling **20%** faster itinerary generation based on user preferences.
- Integrated Gemini AI for real-time personalized travel recommendations, increasing user engagement **by 30%.**
- Deployed Firebase functions to simulate serverless microservices, improving scalability and reducing app load time, and optimized navigation flow with React Navigation, improving user experience by **25%.**

Trace Guard – Real-Time API Performance Monitor
- Built a backend service in Flask that tracks and stores response time, error rates, and throughput for REST APIs in real-time.
- Integrated Prometheus and Grafana to visualize API health metrics, set alerts, and support SLO dashboards.
- Deployed containerized services using Docker and orchestrated via Docker Compose for modular scaling. Simulated high-load traffic using Locust to benchmark performance and identify system bottlenecks under stress.

Bookstore Management System
- Developed a full-stack Bookstore Management System using Flask and PostgreSQL, applying SDLC principles, debugging techniques, and optimizing backend performance.
- Designed and developed a scalable front-end using HTML, JavaScript, and Tailwind CSS, implementing reusable UI components and optimizing performance.
- Conducted unit testing and debugging to ensure reliable backend functionality and improve overall code quality.

Effort logger – Employee Management System
- Built a desktop application using JavaFX to log employee efforts and defects in Agile development workflows.
- Integrated MySQL via XAMPP for secure data storage and implemented efficient database querying for performance.
- Applied MVC architecture to separate concerns, streamline feature development, and enhance UI responsiveness.