Darshan Acharya

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EDUCATION

University of California, Davis **Sept 2023 - Expected 2025**
MS, Computer Science, GPA: 3.91 *Davis, California*
Graduate Coursework: Computer Architecture, Design and Analysis of Algorithms, Machine Learning, Software Engineering, Distributed database systems

Institute of Engineering, Tribhuvan University **Nov 2017- June 2021**
MS, Computer Science, GPA: 3.85 *Kathmandu, Nepal*
Awards and Honors**:** Dean's scholarship, Codecamp Hackathon winner, Inter Soccer Champion

SKILLS

Languages: Java, Python, Javascript, C++
Frameworks: Spring, Hibernate, Apache Struts, Node Js, React, Express
Developer Tools: Git, Docker, Bash, Chrome Dev Tools

WORK EXPERIENCE

Leapfrog Technology **July 2021– Aug 2023**
Software Engineer *Kathmandu, Nepal*
- Engineered and deployed highly scalable RESTful APIs and multithreaded background services using Java, Spring Boot, and Apache Kafka, successfully accommodating a 30% surge in daily requests. Through meticulous performance tuning and optimization, the revamped architecture now handles 35% higher throughput compared to legacy systems, while achieving a significant reduction in average response latency
- Built a data processing pipeline using Python and Apache Spark, processing terabytes of data daily and generating valuable business insights, which led to data-driven decision-making and a 20% increase in revenue.
- Improved the client onboarding process by identifying and addressing technical, UI/UX, and feature gaps, reducing the need for custom development work and saving significant engineering time per new client.

Leapfrog Technology **March 2021- May 2021**
Intern *Kathmandu, Nepal*
- Developed and implemented 8 RESTful APIs and microservices, along with 2 GraphQL schemas, contributing to an 8% increase in system efficiency. Played a key role in enhancing security, handling authentication and authorization across 5 different systems, servers, and environments, bolstering system security.
- Authored and maintained a suite of 50 automated test cases, ensuring 75% coverage of core functionality, which improved code reliability by 22%, and facilitated scalability for future development

UC Davis **Jan 2023- March 2023**
Teaching Assistant *Davis, California*
- Served as a Teaching Assistant for the ECS 036B Object-Oriented Programming course and Chemistry 2B at UC Davis. Graded assignments and exams for over 150 students, providing detailed feedback to facilitate their learning and growth. Led engaging discussion sessions on complex programming concepts. Conducted weekly office hours to clarify doubts and provide personalized guidance, resulting in a 20% improvement in overall class performance.
- Developed supplementary course materials, including coding examples and practice problems, which were adopted by the professor for future iterations of the course

PROJECTS

Logic Simulator Developed a circuit diagram application that allows users to design, simulate, and test various circuits, such as Johnson counters and adders, reducing prototyping errors by an estimated 40%. Link
UTXO Visualization Designed and developed a transaction heatmap visualization for more than 10K transactions in the Resilient Database developed by the Expo lab at UC Davis Link
Python Testing Frameworks Worked on the evaluation of Python frameworks on open-source software Link
Draw Using Fourier Transform Simplified the complex concept of Fourier transforms into an interactive application Link