Shlok Desai

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EDUCATION

UNIVERSITY OF WISCONSIN-MADISON   Madison, WI
Bachelor of Science in Computer Science, Data Science, and Economics   Expected May 2025
Relevant Coursework: OOP, Operating Systems, Algorithms & Data Structures, Big Data, Distributed Systems, Intro to AI
Cumulative GPA: 3.9/4.0

WORK EXPERIENCE

INFOSYS   Bangalore, India
Machine Learning Intern   Aug 2023 – Present
- Led a 5 member student team as the scrum master in a 3-month Agile project-style internship.
- Implemented and fine-tuned an advanced generative adversarial network (GAN) to recolor images in websites, thereby improving web accessibility for users with color vision deficiency.
- Curated a large data set comprising 6,000 ImageNet images transformed using multiple recoloring algorithms.

CYFIRMA   Singapore
Software Engineer Intern   Jun 2022 – Aug 2022
- Collaborated with a seasoned security specialist in a mentoring capacity for 3 weeks, encompassing hands-on experience in forensic analysis, data gathering, digital risk assessment, and in-depth learning of fundamental cybersecurity principles.
- Spearheaded the development of a highly efficient microservice aimed at automating network scans (TCP & SYN), host detection, and ping sweeps. Project implementation resulted in a notable ~40% reduction in human labor hours.
- Single-handedly pioneered the entire microservice comprising roughly 1500 lines of Python code and Bash scripts.
- Integrated Apache Kafka into the project to enable message consumption and production within existing systems.

PYEBOOK   Mumbai, India
Software Engineer Intern   Jun 2021 – Aug 2021
- Wrote SQL queries and implemented JWT authentication in a REST API with a small developer team.
- Achieved a substantial 20% reduction in the average response time of the REST API through the strategic implementation of MySQL indexes, query optimization, and server-level response caching.
- Leveraged React.js to design and develop UI components for the Pyebook web application. Expedited three new features and conducted rigorous unit tests using Jest.

PROJECTS

INSTRUMUS
- Harnessed technology to solve real-world problems, translating complex business needs into innovative technical solutions.
- Scaled a team of 2 members to 11, simultaneously generating an annual profitable turnover with no seed funding.
- Orchestrated the end-to-end development and deployment of two full-stack web applications, a custom design system built with React, as well as an automated email notification service, all deployed on AWS with Docker.

CHATBOT FOR DEVELOPERS
- Employed TailwindCSS and React to craft a polished user interface that allows developers to make informed decisions about programming languages, frameworks/libraries. Dockerized the application for production.
- Scraped Github to construct a Neo4j graph database storing 10k+ nodes with 60k+ relationships, and wrote advanced graph algorithms, including an augmented TSP algorithm to generate tech stack recommendations.

AI-POWERED NEWS SITE
- Spearheaded the development of the web app's frontend using Next.js, seamlessly blending SSR, CSR, and SSG, resulting in instantaneous page loads (~250ms) and a near-perfect Lighthouse score.
- Integrated Algolia to power a lightning-fast search functionality, and React Server Components to reduce the bundle size.

ADDITIONAL

Technical Skills: C, Java, Javascript, Python, AWS, GCP, Git, SQL, RDBMS, MongoDB, Pytorch, Hadoop, Linux, Bash, Docker
Awards: 3x Hackathon Winner (MadData, MadHacks, HackUIowa); Dean's List (Spring 2022, Fall 2022, Spring 2023)
Languages: English (Native), Hindi and Gujarati (Fluent)