

Shlok Desai

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EXPERIENCE

Infosys — Bangalore, India

Machine Learning Intern

Aug 2023 – Present

- Participating in a 3-month, project-style internship executed by a team of 5 students.
- Building generative adversarial networks that recolor images for users with color vision deficiency to improve web accessibility. The project also requires the creation of the large data sets employed during training.

Cyfirma — Singapore

Software Engineer Intern

June 2022 – Aug 2022

- 3-week mentorship under a security specialist that entailed forensic analysis, data gathering, digital risk assessment, and learning cybersecurity fundamentals.
- Spearheaded the development of a microservice to automate network scans, host detection, ping sweeps, TCP, and SYN scans resulting in a ~40% reduction of human labor (measured in hours).
- Singlehandedly pioneered the entire microservice (~1000 lines of code) in under 2 months, written with Python and Bash.
- Integrated Apache Kafka into the project to consume and produce messages in multiple queues.
- Wrote black box & white box tests for the microservice and participated in its deployment using docker.

Pyebook — Mumbai, India

Software Engineer Intern

June 2021 – Aug 2021

- Developed a REST API in a small team that queried a MySQL database, and authenticated users.
- Reduced the average response time of the REST API by a factor of ~1.5 by implementing MySQL query caching and response caching at the server level.
- Developed UI components in Storybook, performed unit tests with Jest, and contributed to 3 new features of the Pyebook web application built with React.

PROJECTS & HACKATHONS

Instrumus

- A side project aimed at solving the billion-dollar academic infrastructure problem in India.
- Built two full-stack web applications with Next.js, a design system, and an automated email service.
- Scaled a team of 2 to 11 while generating an annual profitable turnover with no seed money.

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- My team won first place at the hackathon. I was in charge of execution and planning as the team captain.
- Developed a full-stack web application using Next.js (React.js), Flask, OpenAI's DaVinci Model, and a Neo4j graph database. We utilized DaVinci to parse human input from the web application and convert it to a query.
- Parsed multiple gigabytes of data scraped from Github and built a network of 10k+ nodes with 60k+ relationships. Stored our Neo4j database in a Docker snapshot and open-sourced it.

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- My team won the award "Best Use Of MongoDB".
- We created a web application using React.js that implemented SSO, web sockets, audio analysis, and clustering models. We used MongoDB for persistent storage coupled with complicated data structures.

EDUCATION

University of Wisconsin-Madison – Madison WI, USA

May 2025

Bachelor of Science, Computer Science, Data Science & Economics; Cumulative GPA: 3.9/4.0.

Dean's List (Spring 2022, Fall 2022, Spring 2023).

SKILLS

Technical: Java, Python, C, Javascript, Typescript, HTML, CSS, Figma, Distributed Systems, AWS, React.js, Git, Postgres, SQL, MongoDB, Firestore, Docker, Agile, Linux

Languages: Fluent in English and Hindi; Conversational Proficiency in Gujarati

Certifications: AI Primer Certificate (Infosys Springboard).