

NAMAN KALPESH LAD

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PROFESSIONAL EXPERIENCE

Capgemini, Pune, India

Senior Software Engineer

SEPTEMBER 2022-JULY 2023

- Led a software development hackathon team, achieving second-best feature development timeline and fostering effective team communication.
- Implemented load balancing by deploying a job portal application on AWS using Docker and Kubernetes, creating four instances for efficient scaling.

Crossscope Inc., Mumbai, India

Full-Stack Web Developer Intern

OCTOBER 2021-MAY 2022

- Revamped 5 interactive web pages for a patient disease diagnosis application, enhancing user experience.
- Streamlined data retrieval by optimizing database efficiency, reducing 50 lines of back-end code.
- Headed daily stand-up meetings in absence of a product manager, ensuring task completion and team productivity.

PERSONAL PROJECTS

Railway Management Application

- Formulated 8 tables, 7 triggers in SQL, and several REST APIs resulting in automatic data creation for a train ticket booking application, eliminating manual entry and ensuring data accuracy.

Cheat Sheet Navigator

- Generated a Fish shell script to enhance utility of “cheat” command-line tool by enabling interactive and efficient access to cheat sheets, reducing chances of incorrect command usage by more than 90%.

Algorithm Visualizer

- Created an interactive sorting algorithm visualization tool in ReactJS, featuring customizable array sizing up to 80 and animated sorting processes, aiding understanding and visualization of algorithms.

EDUCATION

University of Southern California, Viterbi School of Engineering, Los Angeles, USA

Master of Science in Computer Science

AUGUST 2023-MAY 2025

- Relevant coursework: Analysis of Algorithms, Database Systems.

Dwarkadas J. Sanghvi College of Engineering, Mumbai, India

Bachelor of Engineering in Computer Engineering

AUGUST 2018-MAY 2022

- Relevant coursework: Database Management Systems, Software Engineering, Human Machine Interaction.
- Average GPA: 9.28/10.

SKILLS

- Languages: Python, Javascript, Typescript, Java, C, C++, Python, HTML, CSS, SQL.
- Technologies & Frameworks: ReactJS, NodeJS, NextJS, Express, NestJS, Redux, Git, MongoDB, MySQL, PostgreSQL, Android Spring Boot, Docker, Kubernetes, AWS, EC2, Linux, Unix.

RESEARCH PAPERS

- Co-authored research paper “Graph Database System for COVID-19 Vaccine Supply” demonstrating the superior performance of graph databases over relational databases for specific query types.

EXTRACURRICULARS

- Led a coding team project for 7 months and devised an inventory management application by studying and incorporating 8 open-source packages.
- Secured 4th place in a hackathon at USC while formulating front-end for a data science application.