

DIVAK MAHESHWARI

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Education:

Bachelor of Science | Computer Engineering

San Jose State University (SJSU), San Jose, CA

Anticipated December 2025

Coursework: Algorithms & Data Structure Design, Database Systems I, Software Engineering I, Object Oriented Concept and Methodology (C++), Assembly language.

Work experience:

Instructional Student Assistant | C++ | San Jose State University

September - December 2023

- Evaluated, graded, and provided feedback to around 50 students on assessments for the Algorithms & Data Structure Design, Programming Concepts & Methodology, Assembly Language Programming courses in C++ language.

Software Engineer Intern | Dell Technologies - Round Rock TX, USA

May - August 2023

- Designed and developed microservices for device telemetry ETL with the scrum team.
- Developed analytics dashboards with MS Power BI - 6M+ messages hosted.
- Technologies: Apache Kafka (Python, Java), Docker, PostgreSQL, Linux / Bash scripting, Jira, Microsoft Team, MS Power BI.

Skills:

Programming Languages: C++, C, Python (TensorFlow, PyTorch, Pandas), Swift UI, Java, HTML/CSS, Assembly.

Dev tools / IDEs: VS Code, Eclipse, PyCharm, GitHub, QTSPIM (MIPS), Jira, Firebase, XCode.

Technical skills: Devops, database design and management, full stack development, mobile application development, containerization, software design and architecture, software development methodology like agile.

Soft skills: Accountability, agility, authenticity, critical thinking, teamwork, conflict management, resilience, risk - taking, self - motivating.

Languages: English, Urdu, Sindhi.

Projects:

Notes taking website | Python, Flask, SQLAlchemy ([GitHub link](#)):

Fall 2023

- Led a team of 3 and developed a feature-rich website, enabling users to securely login, logout, and sign up. Implemented note creation, editing, and deletion functionalities, enhancing user experience.
- Utilized Flask's libraries, such as SQLAlchemy, to store user credentials securely, while setting up a robust database for efficient storage and retrieval of note content and titles. Employed local host and virtual environment for seamless website execution and testing.

iOS Social networking app | Swift, Firebase, XCode ([GitHub link](#)):

May 2023 - Present

- Engineering an iOS social networking app tailored for corporations and universities, resulting in increased user engagement and satisfaction.
- Innovatively introducing features such as event creation, profile matching, user feed and geolocation, enhancing the app's functionality.
- Strategically utilized Firebase for seamless data storage and retrieval.

Discord bot | Python, SQL, MongoDB, PyCharm ([GitHub link](#)):

January 2022 - Present

- Initiated a Python-based Discord bot, providing users with customizable notifications, streamlined messaging experience.
- Designed and maintained SQL databases for efficient storage and retrieval of messages and user information.

Autonomous robot | C| Embedded system ([GitHub link](#)):

Spring 2022

- Launched an autonomous C-based robot capable of locating and retrieving a green beacon while deactivating a red beacon.
- Executed the mechanical design, encompassing the robot's arm, body, and overall weight consideration.
- Demonstrated technical expertise by successfully compiling and implementing hardware code, including soldering the Infrared Receiver board.

Patient management system | C, HTML/CSS, file handling ([GitHub link](#)):

Spring 2021

- Led a team of 3 and developed a comprehensive patient management system, showcased proficiency in file handling operations and graphical interface design.
- Key features include the implementation of patient records, doctor details, appointment scheduling, and data storage.

Achievements:

- Campus Advocate of Dell Technologies for fall 2023 term. Increase campus engagement / diversity program relationship for unique opportunities to brand company and connect with outstanding candidates.
- General Officer of SJSU's IEEE club in (2022). Organized career fair events and managing event logistics.
- Won 1st position in a photography competition hosted by Jinnah Sindh Medical University (2021).
- SIUT (Hospital Volunteer); elevated patient care, improved quality of life, provided supplementary support to staff, community engagement.
- Selected as a delegate at Asia Pacific Youth Camp 2.0 (2019).
- Hobbies include reading, photography ([portfolio link](#)).
- Held roles as assistant director, brand ambassador at multiple Model United Nations conferences.