Suyash Jain

j.suyash1231@gmail.com | +1 (949)-992-5767 | LinkedIn | GitHub | Portfolio

EDUCATION

University of California Irvine | BS, Computer Science, Statistics **Graduation: June 2026 | GPA: 3.78**

Coursework: *Data Structures & Algorithms, Artificial Intelligence, Operating Systems, Software Libraries, Human-Computer Interaction, Object Oriented Programming, CS Statistics, Boolean Logic, Discrete Structures, C/C++ Programming.*

EXPERIENCE

ENGINEERING STUDENT COUNCIL (ESC) *Irvine, CA*

Tech Director (ReactJS, NodeJS, Firestore, and Google Cloud) **May 2024 - Present**

- Revamped the website using HTML5, CSS, and JavaScript to ReactJS while leveraging Google Cloud Functions and Firestore to store event data in a NoSQL document database. This migration automated various functions, significantly reducing the time required for integrating new events from **1-2 days** to **5-10 minutes.**
- Designed and developed a high-performance corporate website for the Engineering Student Council using ReactJS for the front end, leveraging **server-side rendering** and code-splitting for optimal load times, and **NodeJS with Express** for the back end.

GOOGLE DEVELOPER STUDENT CLUB *Irvine, CA*

Software Developer (Android Studio, Figma, Firebase, C++) **February 2024 - Present**

- Collaborated with Google Developer Student Club (GDSC) at UC Irvine to develop a mobile application for the GDSC Solution Challenge, facilitating community issue reporting with a user-friendly UI/UX design and aligning project goals with the UN's Sustainable Development Goal **(UN SDG).**
- Implemented server-side functionality using Firebase, enabling seamless data sharing with local authorities and real-time updates, resulting in a 40% reduction in issue resolution time and fostering community engagement.

INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, DESIGN AND MANUFACTURING *Jabalpur, MP, India*

Software Engineering Intern (C++, SolidWorks, Microcontrollers, Embedded Systems) **April 2021 - June 2021**

- Gained proficiency in embedded system design through rigorous coursework, dedicating substantial effort to hands-on lab sessions and developing **2 mini projects** leveraging Arduino, Raspberry Pi, and PIC microcontrollers.
- Contributed to a cutting-edge research project funded by the Science and **Engineering Research Board (SERB)** and the Department of Science and Technology (DST), **Government of India**, focused on developing an innovative computer numerical positioning system for 3D Printing/Additive Manufacturing and played a key role in developing a robust positioning system with an **accuracy of ±0.05 mm**, meeting stringent project requirements.

PROJECTS

RC Rover Development Project - *Sensor Integrated Multi-Utility Vehicle*

- Spearheaded the team to design and fabricate an innovative RC Rover, integrating electronics while incorporating advanced sensors such as **PixyCam** for computer vision, **infrared sensors** for obstacle detection, and **mechanical claw** for object manipulation and retrieval, leveraging **Arduino** for programming and sensor integration.
- Employed **3D printing** and **SolidWorks CAD** modeling to craft custom components, enhancing the functionality and aesthetics of the rover while showcasing mechanical design prowess.

Chatbot Development - *GDSC UCI NLP Project*

- Collaborated with the GDSC UCI team to develop an AI-powered chatbot using NLP techniques and AI, contributing to advanced functionalities like context-aware responses, sentiment analysis, and knowledge base integration to enhance user experience.
- Utilized NLTK and machine learning models, achieving **80% accuracy** in understanding natural language queries while fostering a collaborative environment and leveraging industry best practices for continuous improvement.

Flight Data Processing Pipeline *- Python SQLite Database*

- Developed an advanced Flight Database System using **Python and SQLite3**; optimized database schema to boost data **retrieval efficiency by 35%**, ensuring rapid data manipulation and improved performance for 10,000+ records.
- Enforced data integrity through SQL constraints, indexing, and normalization techniques, achieving low query response times while optimizing performance and ensuring data consistency for accurate and fast access to flight-related information.

Secure Chat Messenger - *Python Tkinter Client-Server Application*

- Developed a direct messaging chat application using Python and Tkinter, implementing a robust **server-client architecture** for real-time communication and incorporating user authentication and encryption algorithms to ensure secure messaging.
- Implemented real-time updates and notifications and designed an intuitive GUI using **Tkinter**, providing an engaging and user-friendly chat experience akin to popular messaging platforms while leveraging multi-threading for efficient concurrent connections.

SKILLS AND INTERESTS

Languages | FrameWorks: Python, Java, C/C++, React.js, Node.js, Rust, MIPS, HTML, CSS, TensorFlow, Pytorch, Android Studio
Awards/Skills: Winner Sea Pitch Competition UCI, CLAP Certified | Git, APIs, SQLite, Firebase, Google Cloud, Azure, AWS Cloud
Interests: AI, AR/VR, Cybersecurity, Game Development, Cloud Computing, App development, Robotics, IoT, Computer Vision