

# Aditya Singh

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## EDUCATION

### University of California, Irvine

Irvine, CA

Bachelor of Science in Computer Science with specialization in Intelligent Systems

Expected June 2025

- Major GPA: **3.67** | **Dean's Honor List Recipient**
- **Relevant Coursework:** DB Management | Data Structures & Algorithms | Information Retrieval | Computer Networks | Intro to AI | Machine Learning & Data Science | System Design | Operating Systems

## TECHNICAL SKILLS

**Languages:** Java, JavaScript, TypeScript, Python, SQL (Postgres/MySQL), Node.js, HTML/CSS, C/C++

**Frameworks:** REST API, JWT, NestJS, Angular, Redis, Socket.io, Angular Material

**Developer Tools:** Git, Docker, GCP, SSH, PM2, Postman, Netlify

## EXPERIENCE

### Software Engineering Intern

June 2024 - September 2024

*Corover.AI*

*Remote*

- **Implemented** input validation and **Redis**-based features to enhance chatbot's functionality for the eSevak bot (**10M+** users), for the purpose of ensuring robust data handling and improved user experience.
- **Deployed** over 10 services using **SSH**, **PM2**, and **Git** during the migration from **Linode** to **Google Cloud Platform**, which provided hands-on experience in cloud infrastructure.
- **Conducted** use-case testing with **UI/UX**, **backend**, and **data** methodologies on a high-priority chatbot for University Living (**7M+ bookings**), for the purpose of identifying and prioritizing issues to enhance platform performance.
- **Utilized SCRUM** methodology to participate in daily meetings and align tasks, in order to improve project workflow.

### Software Engineer

April 2023 - September 2023

*CubeSat @ UCI*

*Irvine, CA*

- **Utilized** optimized **documentation workflows** and standardized **project requirements** to develop efficient software systems within a cross-functional team, enhancing system efficiency by **20%**, in order to improve overall team performance.
- **Employed UML diagrams** and gathered system requirements from CubeSat projects across US universities to develop clear and aligned project objectives, improving system clarity and ensuring coherent project development
- **Applied agile methodologies** in collaboration with **Northrop Grumman** and team to define software requirements, accelerating project timelines and streamlining the development process.

## PROJECTS

### Fullstack Realtime Chat Application

[GitHub](#)

- **Employed NestJS**, **Angular**, and **Socket.io** to develop a fullstack realtime chat application with **JWT-based** user authentication, for the purpose of enabling secure and interactive communication.
- **Implemented REST APIs** and structured the backend with **controllers**, **services**, **DTOs**, and **validators** to develop chatroom features and user management, which enhanced my backend development skills.
- **Integrated Angular Material UI**, connected frontend and backend sockets, and tested APIs using **Postman** to develop a responsive and reliable user interface, for the purpose of improving user experience.
- **Utilized Docker** to containerize both backend and frontend services, gaining hands-on experience with containerization, for the purpose of facilitating deployment and scalability.

### Task Management Backend Service

[GitHub](#)

- **Engineered** a backend service for task management using **JWT-based custom auth guards**, supporting **CRUD operations**, filtering, and searching, for the purpose of enabling efficient task management and enhancing security.
- **Built** user authentication, task creation, status updates, and profile management, ensuring **data validation** and secure **API endpoints**, which improved my skills in backend development and security.

### Webscraping Search Engine

[GitHub](#)

- **Developed** a tailored web search engine using **Python**, **Flask**, and **BeautifulSoup**, which enhanced search accuracy and speed by **40%** through pre-processing and indexing files, for the purpose of enabling faster retrieval of results.
- **Enhanced** search relevancy by applying **TF-IDF scoring** and utilizing **NLTK** for advanced tokenization and stemming, which improved the effectiveness of search results, for the purpose of providing more accurate information to users.
- **Integrated OpenAI's GPT-3** via API to generate concise search summaries, elevating user experience by delivering quicker and more accurate search results, for the purpose of enhancing user engagement and satisfaction.

### Portfolio Website (FullStack)

[GitHub](#)

- **Developed** a fully responsive personal portfolio website using **HTML**, **CSS**, and **JavaScript**, incorporating a dynamic contact form with **EmailJS** and applying **media queries** for compatibility across various devices, for the purpose of effectively showcasing my skills and projects while delivering a seamless user experience.
- **Deployed** the website using **Netlify** for continuous deployment, ensuring efficient version control and easy updates, for the purpose of maintaining and scaling the website effortlessly.