

Tanush Goel

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EDUCATION

University of California, Irvine

June 2025

B.Sc Computer Science: Intelligent Systems (AI, Machine Learning), Algorithms

Cumulative GPA: 3.8/4.0

SKILLS & INTERESTS

Languages & Frameworks: Python, Git, SQL, C++/C, JavaScript, TypeScript, HTML, CSS, Go, R, Pytorch, React
Tools: MySQL, MongoDB, Node.js, BERT, Hugging Face, Plotly, Postgres, AJAX, Docker, Anaconda, bash, sci-kit learn
Technologies: Azure, AWS, Linux, RESTful API, Figma, VS Code, Postman, WebSockets, Wandb
Interests: Rowing, Basketball (Lakers), Reading, Travelling, Hiking, Food, Rock Music, Formula 1

WORK EXPERIENCE

Stratagem Research | JavaScript, React, Python, Figma, SQL, HuggingFace

Jun 2024 – Sep 2024

Full-Stack Software Engineer Intern

Los Angeles, CA

- Crafted user-friendly and aesthetically pleasing UI/UX designs with Figma and React for multiple types of users
- Ensured the performance of database system to provide accurate financial data for 2k+ different data points with Python
- Integrated financial data with analytics and visualization tools for making quantitative models with 20% annual return
- Analyzed quarterly earnings reports of companies in SP 500 to determine the viability of investments with HuggingFace

BiasLab Research Group | Pytorch, Python, Roboflow

Mar 2024 – Aug 2024

Undergraduate Researcher

Irvine, CA

- Created an annotated dataset of 2,200 images using Grounding Dino and Roboflow
- Utilized Roboflow pipeline to streamline ML development process, enabling 2x faster model iteration and deployment
- Performed the concealment of sensitive information within photos using Natural Language Processing
- Researched different methodologies for solving object detection and segmentation with programs like Grounding DINO

UC Irvine Donald Bren School of Information and Computer Sciences | Python

Sep 2022 – Dec 2022

Learning Assistant

Irvine, CA

- Enhanced understanding of 200+ students by advising them on different computing topics in Python
- Utilized learning tools like Zoom, Github, Google suite to conduct office hours to help students clarify their questions
- Clarified issues on projects for nearly 50 undergraduate students leading to improved understanding and test scores

PERSONAL PROJECTS

University Info BERT ChatBot | Azure, Python, Docker, Pytorch

- Created chatbot from scratch using BERT model, servicing over 100 students by automating answers to university policies
- Combined Azure backend to train and deploy the model so it can be connected to Gradio front end
- Utilized various Azure technologies to complete cloud implementation and deployment with docker images

IEEE GRSS Dataset Settlement Detections | Python, Pytorch, Numpy, Pytorch Lightning, Wandb

- Developed models to predict the locations of settlements with or without electricity in areas of Africa with 80% accuracy
- Utilized WandB and Pytorch lightning for the training process of model and tracking its accuracy throughout
- Combined Random Forest with FCNR Resnet model using feature extraction to make better predictions on the data

SVHM Neural Network | Python, Pytorch

- Optimized cloud server GPU for neural network model using Google Colab to get model with 90% accuracy
- Utilized SVHM dataset to implement neural network model to classify dataset over shorter time periods
- Implement using neural network model with Pytorch libraries after testing different neural networks layers such as CNN

Steam Game Compiler | HTML, CSS, JavaScript, React, Python

- Created for HackUCI 2022 and won the Hacker's choice award out of 30+ groups at Hackathon
- Built with the Steam API to provide a way to search for games and look at statistics regarding player base
- Integrated robust information provided by API with a well-designed UI to display organized and detailed account of game

LEADERSHIP

180 Degrees Consulting

Jan 2023 – Present

External Vice President

Irvine, CA

- Communicated with nonprofits clients to develop project scope and streamline research to better address client needs
- Evaluated business scenarios to help clients with marketing and business strategy leading to 70% increase in fundraising
- Led team of consultants on various projects to construct strategies and communicate effectively between client and team

ASCUCI Student Programming Funding Board

Oct 2022 – June 2023

Board Member

Irvine, CA

- Allocated over \$250,000 in funding to the over 600 registered campus organizations for professional events on campus
- Conducted nearly 100 interviews of applicants and communicated with clubs about their needs and funding policies
- Led multiple constructive debates about how issues of funding can be resolved and helped reach a compromise