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, R, Pytorch, React, Go
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

BiasLab Research Group | Pytorch, Python, Roboflow   Mar 2024 – Present
Undergraduate Researcher   *Irvine, CA*
- Trained custom YoloV8 model for privacy scenarios with generated adversarial network utilizing distributed computing
- 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

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 5k+ 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

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

Leksa | React Native, Express, PostgresSQL, DigitalOcean, Node.js, Python
- Deployed recommendation system for food posts and restaurants on DigitalOcean Droplet with CI/CD pipeline
- Innovated word2vec model for customizing user experience on platform and increasing engagement by 75% on platform
- Streamlined pipeline for training and testing models with Github and Docker on DigitaOcean Droplets to be 40% faster

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

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 clients to establish relationships for potential projects and formulated project scope for 10+ projects
- Evaluated business scenarios to help clients with marketing strategy leading to a 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