

Satyam Gupta

☎ (858) 241-7870 • ✉ sagupta@ucsd.edu • 🌐 sagupta.tech • 🌐 satyam19946
in satyam19946 • 🐦 satyam19946

Education

University of California San Diego

Sep 2018 – Jun 2022

Bachelor of Science

Major in Computer Science (3.84/4.00)

Relevant Coursework: Advanced Data Structures, Design and Analysis of Algorithms, Software Engineering, Web Client Languages, Online Database Analytics Applications, Operating Systems, Introduction to Machine Learning, Deep Learning, and Introduction to Artificial Intelligence: Search and Reasoning.

Experience

Software Engineer Intern @ SigFig

Jun 2021 - Sept 2021

- Created a CRUD web-application to handle requests for a database of more than 10,000+ users.
- Discussed design patterns (implemented dependency injection), pair-programmed, attended stand-ups, and developed the backend to communicate with the API.
- The approved implementation was cleaner, faster, and much more sustainable than the previous version.
- Languages/Libraries/Frameworks Used - **Python, React.js, Django, TypeScript, PHP, and MaterialUI.**

CSE Tutor @ University of California San Diego

Mar 2021 - Present

- Tutor for 300 students in the CSE 110: Software Engineering course @ UCSD.
- Explaining relevant technology (HTML, CSS, JavaScript, and CRUD) to develop web-apps.
- Tutoring keeps my fundamentals and all-round tech knowledge effective as I tackle problems from various fields.

Extracurriculars

Event Lead @ ACM - AI

Oct 2020 - Present

- Organize and lead events like reading groups and workshops for our community of 700+ members.
- Contributing to Neural Networks and Reinforcement Learning workshops with an average of 40+ attendance.
- Coding neural networks and explaining RL topics has given me a firm grasp on the algorithms and the math.

Tech Lead @ Tau Beta Pi, California Psi

April 2021 - Present

- Member and board member of Tau Beta Pi, California Psi - The Premier Engineering Honor Society at UCSD. (Top 1/8th)
- Carrying out Full-Stack development and overseeing their website - handling all the initiates and events entries in the Frontend (**React.js**) and the Backend (**PHP**).

Logistics Director @ Sixth College Tech Comm

Apr 2020 – Present

- Created a Bot in **Python** using **Google Sheets API** to automate raffling for our event with 150+ attendees which resulted in implementing a better and a fairer raffle drawing system.

Projects

Database Analytics

March 2021 - June 2021

- Created a website and a **RESTful API** to track and collect data from the visitors on the website.
- Setup session management and created visualizations from the data collected to generate an insightful report.
- Used: **Node.js, Express.js, MySQL, Apache 2.0 JavaScript HTML, CSS, and Git.** Hosted on **DigitalOcean.**

Visualizer

Nov 2020 - January 2021

- Created a visualizer for different algorithms and data structures to help explain the CSE algorithms used in lower division courses.
- Implemented **Stateful classes** and **React Hooks** to create class components and functional components respectively.
- Used: **React.js, JavaScript, HTML, CSS, and Git.** Hosted on **Github pages (Click to view).**

Skills

- **Languages:** Python, JavaScript, TypeScript, C++, and Java.
- **Front-End:** React.js, HTML, CSS, and React-Native.
- **Back-End:** RESTful API endpoint, Node.js, Django, Express, MySQL, Apache, and Mongo.
- **ML Tools & Libraries:** PyTorch, Tensorflow 2.0, Jupyter, and Keras.
- **Software Development methodologies:** Object-Oriented Programming, Agile, and Design Patterns.