

# Anshi Singh

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## EDUCATION

University of California, San Diego | La Jolla, California

Expected Grad: June 2025

*Bachelor of Science, Computer Science*

**Coursework:** Parallel Computing, Components and Design Techniques for Digital Systems, Web Mining & Recommender Systems, Database System Principles, Web Client Languages, Human-Computer Interactions, Algorithm Design and Analysis, Data Structures, Advanced Programming, Artificial Intelligence, Computer Organization and Assembly Language, Discrete Mathematics

**Activities:** GHC Scholar, Women In Computing Projects Chair, Python & C++ Lab Tutor

## EXPERIENCE

Software Engineering Intern | CoStar Group

June 2024 – August 2024

*Skills: Vue.js, C#, .NET, TypeScript, DynamoDB, SCSS, Selenium, Azure*

- Refactored an internal developer tool for Homes.com, and integrated it into the main platform allowing automatic data decryption, quick links for user management, and a favorites database—streamlining the workflow and resulting in a 50% reduction in developer hours for specific tasks.
- Optimized code for SEO, resulting in improved Lighthouse performance scores and increased search engine visibility.
- Developed and implemented a comprehensive suite of automated tests using Selenium for building search results, increasing testing efficiency and reducing the production release cycle.
- Actively participated in an Agile Scrum team, collaborating closely with cross-functional members to deliver high-quality software solutions.

Projects Chair | Women in Computing @ UC San Diego

January 2024 - Present

- Organized and led project teams for 60+ members each quarter, focusing on web development.
- Developed a 10-week activity plan and conducted technical workshops weekly on HTML, CSS, JavaScript, and APIs.
- Designed and delivered workshops on interview prep, resume writing, and Figma to enhance members' skills.

Software Development Fellow | Open Avenues

June 2023 – August 2023

*Skills: TypeScript, PostgreSQL, Docker*

- Engineered a backend API in TypeScript for tracking ~10,000 transactions on EVM-based blockchains.
- Implemented listeners to monitor blockchain events, parsing data to use for transaction metrics.

## PROJECTS

Checkers AI Solver | *Python, Flask, JavaScript, HTML, CSS*

- Designed and implemented a Checkers AI employing Minimax algorithm for strategic decision-making.
- Optimized performance with Alpha-Beta Pruning to enhance efficiency and reduce computation.
- Built and deployed a web interface with Flask, enabling real-time interaction and gameplay with the AI.

Developer Journal Website | *HTML, CSS, JavaScript, Figma, Jest, Github*

- Managed a team of 11 to develop a note-taking and task management website using web client languages.
- Implemented features including markdown formatting, dark/light mode, local storage, and accessibility enhancements.
- Set up a CI/CD pipeline with ESLint, JSDoc, and unit tests in Jest and Puppeteer.

Food Image Classifier | *Python, TensorFlow, Keras, Jupyter Notebook*

- Developed a convolutional neural network (CNN) model to classify 101,000 images of 101 categories with high accuracy.
- Achieved 75% accuracy through extensive model tuning and optimization.
- Leveraged TensorFlow and Keras to design, train, and deploy the deep learning model, improving recognition capabilities.

Twitter, Parstagram, and Flix App | *Swift, Figma*

- Utilized Swift along with various APIs (Twitter, TMDB) to develop three distinct apps resembling Twitter, Instagram, and a movie browsing platform.
- Implemented functionalities such as retweeting, posting tweets/pictures, multi-displays, and user login functionality.
- Leveraged a Parse Server on Back4App to efficiently store and retrieve data.

## SKILLS

**Programming Languages:** C/C++, C#, Python, JavaScript/TypeScript (Vue.js, React), Swift, HTML/CSS

**Frameworks & Libraries:** TensorFlow/Keras, Flask, .NET

**Tools & Platforms:** AWS, Git, Docker, Figma, Selenium, Jest, Jupyter Notebook, Github, Azure, VS Code

**Databases:** DynamoDB, SQL (Postgres)