

Arnav Choudhury

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EDUCATION

Santa Clara University

M.S. in Computer Science and Engineering.

B.S. in Computer Science and Engineering.

Santa Clara, California

September 2024 – June 2025

September 2020 – June 2024

Activities: President of Triathlon Club

Awards: 2022 Santa Clara Inrix Hackathon Winner, 2024 Collegiate Triathlon All American

Coursework: Distributed Systems, Operating Systems, Compilers, Natural Language Processing, Computer Vision, Data Structures, Advanced Algorithms

WORK EXPERIENCE

Odoo

Full Stack Developer Intern | Python, JavaScript, XML, Posgres

Buffalo, New York

June 2023 – September 2023

- Developed and implemented “445” accounting schedule module, improving financial reporting accuracy by 4% enabling businesses to create custom fiscal schedules eliminating manual adjustments.
- Optimized SQL queries and Posgres database interactions for various fiscal schedules, resulting in a improvement in data retrieval by writing patch to the Python ORM.
- Navigated and contributed to a complex codebase of over 200,000 lines of code, developing a flexible fiscal schedule Python class that allows businesses to create and manage custom accounting periods.
- Contributed to code quality by writing comprehensive unit tests for frontend components using Jest, achieving 90% test coverage for default modules incorporated into client solutions, and refactoring existing code to enhance maintainability.

Santa Clara University EPIC Lab

Research Assistant | Python, JavaScript, MySQL

Santa Clara, California

February 2022 – June 2023

- Architected and developed the web and mobile platform that enables 5,000 SCU students to utilize public transit for accessing local events and restaurants, reducing estimated carbon footprints by 10-15%.
- Created a Python Flask REST API connected to a MySQL database server facilitating efficient and real-time routing to enhance student accessibility to local amenities and restaurants.

PROJECTS

Pose Reference Generator | JavaScript, Python, React, ThreeJS

- Developed a Pose Editing tool with ThreeJS to streamline the creation of conceptual ideas into precise visual references, improving workflow efficiency.
- Implemented a method for integrating 3D pose data into Stable Diffusion image generation, enhancing control over output.

Study Rush | JavaScript, React, Python, Docker, Posgres, Tailwind, ChatGPT, Claude

- Developed Study Rush, AI-integrated flashcard website featuring automatic flashcard generation, immediate feedback quizzes, and AI study groups.
- Worked closely with the backend team to integrate APIs and conducted thorough testing to ensure a consistent and bug-free user experience across different pages.
- Integrated multiple LLM options like ChatGPT and Claude using a Python API.

Virtual Cycling Leaderboard | Python, JavaScript, C#, HTMX, Firebase, Tailwind, Docker, Azure, .NET

- Virtually connects cyclists in virtual rooms where players can connect their BLE sensors to see each players speed, distance, heart rate, and cadence in real time displayed on the web with HTMX.
- Deployed a .NET API micro-service that encodes player stats into FIT files where they can download and upload to their favorite sports tracking apps.

SKILLS

Languages: Python, JavaScript, C, C++, Java, C#

Technologies: Flask, Node, React, Svelte, Vite, Deno, Spring, .NET, Docker, Git, Pandas, S3, Lambda, MongoDB, Firebase, Maven, CMake, Selenium, Postgres, Vercel, OpenCV