

FORREST CAI



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in [forrestcai](#)



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EDUCATION

Cornell University

Bachelor of Science BS, Computer Science

Ithaca, NY

Expected May 2026

- **Relevant Coursework:** OOP & Data Structures, Functional Programming, Discrete Structures, Linear Algebra, Analysis of Algorithms, Computer Systems Organization, Operating Systems, Computer Vision

EXPERIENCE

DAuth Network

Full Stack Engineer Intern

May 2024 – Sep 2024

Remote

- Led the front-end development for web3 products using Typescript and Next.js, driving a significant increase in product visibility, with 15,000+ impressions.
- Integrated RESTful APIs, allowing for data retrieval and interaction between web3 smart accounts and traditional web2 authentication providers.
- Applied version control (Git) and automated (CI/CD) pipelines, while participating in Agile development cycles to reduce deployment time by 40%.

San Jose Bike Clinic

Software Engineer Intern

May 2022 – Aug 2023

San Jose, CA

- Designed an interactive map for local bike lock locations using Python to aggregate and process 1,000,000+ images from google maps to identify locks.
- Conducted A/B testing on website features, leveraging Google Analytics and pandas to identify and implement improvements, resulting in a 10% increase in conversion rates.
- Developed a bike part filtering feature using JavaScript and React, enhancing product discovery and increasing revenue by 17%.

PROJECTS

Code Tutoring Platform | React, PostgreSQL, Flask

- Developed an interactive coding tutor using React and Flask creating RESTful API's for user authentication, and data management.
- Structured a PostgreSQL database for handling user progress tracking and preferences, alongside educational material.
- Designed 50+ coding lessons for various coding languages (Python, HTML, CSS, Java).

ChefMate | Python, PyTorch, pandas, MongoDB

- Engineered an AI culinary assistant leveraging OpenAI's API to process language queries and a PyTorch neural network to analyze user preferences facilitating adaptive recommendations for recipes.
- Utilized pandas and scikit-learn for culinary feature extraction from datasets of 100,000+ recipes, enhancing the model's recipe recommendation accuracy by 72%.
- Integrated MongoDB with web scraping and prompt engineering to enable dynamic storage of recipes from the AI model and 15+ culinary websites.

OBattleship | Ocaml

- Designed and implemented a terminal-based recreation of Battleship game with AI opponents and turned based modes.
- Integrated randomized ship placement and grid-based targeting system.
- Ensured robust game logic through full coverage testing of 1200+ LOC and error handling.

TECHNICAL SKILLS

Languages: Python, Go, C, Java, OCaml

Web Development: HTML, CSS, Typescript, Javascript

Libraries/Frameworks: PyTorch, React, PostgreSQL, MongoDB, Flask, scikit-learn, pandas, Next.js

Tools: IntelliJ, \LaTeX , Git, Docker, Excel, Figma