Peter Wu

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Education

Cornell University   Aug. 2019 - Current
Bachelor of Science in Computer Science 2023
GPA: 3.983 | Relevant Coursework: Object-Oriented Programming & Data Structures, Discrete Structures, Multivariable Calculus, Functional Programming, Linear Algebra, Analysis of Algorithms, Machine Learning Intelligent Systems, Engineering Probability & Statistics, Computer Organization & Systems Programming*, Computer Vision* (* = planned)

Skills / Awards

Programming Languages: Java, Python, JavaScript, TypeScript, OCaml, HTML/CSS, C++
Technologies: (Machine Learning / Data Science) NumPy, Pandas, scikit-learn, TensorFlow, (Software Engineering) CI/CD, React, Redux, Git, Node.js, Firebase, Express, WebSockets, Google Cloud Platform
Awards: USA Computing Olympiad Gold Division, Cornell Math Contest in Modeling Runner-Up Winner,
Dean's List (all possible semesters), USA Biology Olympiad Semifinalist, Best Webapp Award at HackMHS IV

Experience

Google, *STEP Intern*   May 2020 - Aug. 2020
- Developed Overnightly, an app that eases travel planning by algorithmically finding a place to stay based on given locations, suggesting places based on filters, and planning optimal itinerary routes.
- Designed the project's system architecture and backend schema, documenting significant implementation strategies in the design doc to assist in collaboration with teammates.
- Delivered well-tested code enforced by a CI pipeline by increasing the backend test coverage to over 95% using JUnit and Mockito.

Cornell University, *Teaching Assistant*, Ithaca, NY   Jan. 2020 - Current
- Spring 2020 - present: Trends in Web Development (30+ students)
- Fall 2020 - present: Functional Programming (400+ students)

Cornell Design & Tech Initiative, *Software Developer*, Ithaca, NY   Oct. 2019 - Current
- Working on Samwise, an online student planner, with a team of designers, product managers, and developers. The app currently has over 200 active users.
- Creating responsive frontend and UI with React and TypeScript interacting with a Redux store, while following the Git branching and CI/CD workflow.

MBS Accounting Technology & Advisory,   July 2018 - Aug. 2018, July 2019 -
Web Developer Intern, New York, NY   July 2019
Worked as a web developer for two summers for the largest outsourced bookkeeping firm in NYC, servicing over 180 firms.
- Developed a mobile-responsive webapp for a "Client Hub" with a React + Express + Node.js stack, building mobile-responsive UI components interacting with backend API endpoints.

Projects

Distributed Texas Hold 'Em Poker | Node.js, socket.io, Express   Apr. 2020
Webapp allowing for players across multiple devices to join rooms and play Texas Hold 'Em poker. Evaluates unit tests using the Jest framework on the game logic, which was implemented from scratch.

Outbreak | OCaml, Node.js, React   May 2020
Strategy game based on *Plague Inc.* made as my final project submission for CS 3110 (Functional Programming). Implements game logic and middleware using OCaml, with a frontend created in React.

Election County Prediction | TensorFlow, NumPy, Pandas, scikit-learn   Dec. 2020
Comparing effectiveness of ML algorithms such as SVMs with deep neural networks to classify counties in the U.S. presidential election. Placed 5th out of 173 in the class overall in CS 4780 - Machine Learning for Intelligent Systems.