AUDREA HUANG

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EDUCATION

Wellesley College, Wellesley, MA   **Expected May 2022**
BA in Computer Science, Minor in Mathematics
GPA: 3.86 / 4.0

Core Courses: Algorithms, Data Structures, Computer Systems, Linear Algebra, Combinatorics & Graph Theory
Data Courses: Databases with Web Interfaces, Data and Text Mining for the Web, Deep Learning

RELEVANT EXPERIENCE

Simulation Infrastructure Software Engineering Intern, Aurora, *Remote*   **Jun 2021 – Aug 2021**
- Generated user-definable plots with Plotly to analyze the impact of autonomy code changes on simulated vehicle performance, translating and refactoring code from Golang to Python to display on the dashboard UI with JavaScript.
- Wrote comprehensive unit tests and integrated with Bazel to support full-stack infrastructure in scrum team of 6.
- Implemented extensive debugging in end-to-end integration tests to optimize workflows and improve query runtimes.

Computer Science Tutor, Wellesley College, *Wellesley, MA*   **Sep 2019 – Oct 2020**
- Shaped introductory computer science course in Python with feedback for assignments and inclusive teaching models.
- Personalized instruction and facilitated group drop-in hours for 90+ students to address questions about programming logic, recursion, data parsing and organization, and graphics.
- Helped migrate an in-person program to a virtual format that engages students and fosters discussion.

Simulation Scale Software Engineering Intern, Uber ATG, *Remote*   **Jun 2020 – Aug 2020**
- Validated reliability of testing data and full-stack software through AWS logs and relational database queries in SQL.
- Scaled data from 10k+ evaluations and reported end results to the UI in JavaScript with agile/scrum team of 7.
- Researched, designed, and implemented an anomaly detection feature in Go for simulation metrics of varying scope.
- Managed metric aggregations for customizable simulation criteria through database migrations and deployments.
- Reported deviations with results extending beyond 99.7% of the data distribution; cut calculation time by 33%.

PROJECTS

Coda: Music Curation and Sharing, Databases, *Wellesley College*   **Sep 2020 – Oct 2020**
- Designed a MySQL database to organize 100+ songs and playlists, support user searches for friends' playlists, and filter music exploration by genre; enforced thread safety and increased query runtime efficiency by 43%.
- Integrated PyMySQL with Flask, HTML, CSS, and Jinja2 to support accessibility and optimize webpage navigation.
- Personalized user interactions with the dynamic full-stack application by authenticating sessions through CAS.

COVID-19 Debunked, HooHacks, *University of Virginia, Virtual*   **Mar 2020**
- Led a team of 4 to design an interactive website that dispels widespread myths circulating COVID-19.
- Employed HTML, CSS, and JavaScript to present WHO and CDC recommendations in an easy-to-use, graphic format.
- Managed the front-end by distributing deliverables while establishing designs, formatting, and the avatar's movement.

SKILLS

Programming Languages: Python, Java, Go, SQL (Postgres, MySQL), C
Scripting Languages: HTML, CSS, JavaScript, LaTeX
Tools: Git, AWS, Flask, Jinja2, Selenium, CAS, Jira, Keras, Plotly, Bazel

AWARDS & POSITIONS

Rewriting the Code, Remote, *Fellow*	**Jun 2019 – Present**
Out 4 Undergrad, Remote, *Tech Conference Attendee*	**Oct 2020**
Facebook Data Challenge, Remote, *Finalist*	**Apr 2020 – Aug 2020**
HackMIT, Cambridge, MA, *Best Hack for Education*	**Sep 2019**
SisterHacks, Bryn Mawr, PA, *Best Hack for Social Good*	**Mar 2019**