Annie Lu

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Education	**University of Maryland, College Park**	Expected December 2020

Bachelor of Science in Computer Science
GPA: 3.5 | Dean's List (2019, 2020) | President's Scholarship

Environment Technology and the Economy Scholar   May 2019

A selective University of Maryland program interconnecting technology and
sustainability through course studies and academic excursions.

Skills

Languages	Python, Java, Ruby, Javascript, HTML5, CSS3, SQL, C, OCaml, Rust, Kotlin
Libraries	React, Bootstrap, NumPy, Pandas, Scikit-Learn, NLTK, SpaCy
Technologies	GIT, UNIX, Docker, Node.js, Django, Postman, Jupyter, LaTeX, Figma, Adobe Illustrator

Employment

Tech Analyst Intern   June 2020 to August 2020
Bank of America   Remote

- Built an internal chatbot that defines financial terms and provides documents to business analysts.
- Developed a RESTful Flask API with endpoints that utilize the Natural Language Processing Toolkit to transform user questions into structured data.
- Lead two interns to create the chatbot user interface with Bootstrap, after prototyping in Figma.

CMSC351 Algorithms Teaching Assistant   January 2020 to Present
UMD Computer Science Department   College Park, MD

- Answer homework questions and review algorithms taught in lecture during weekly office hours. Attended by 15 students weekly, on average.
- Help edit problem sets, design rubrics, and proctor exams. Coordinate with the professor and 11 other teaching assistants to grade assignments for over 400 students.

Part-Time Software Engineer Intern   September 2019 to Dec 2019
Capital One Tech Incubator   Remote

- Identified and automated compliance tasks with the Jira API—saving engineering lead's time spent on understanding, checking, and following security compliance standards.
- Improved compliance data retrieval by data wrangling JSON and CSV files with Pandas DataFrames.

Software Engineer Intern   June 2019 to August 2019
Capital One Tech Incubator   Tysons, VA

- Developed a metadata validation program with Python and SpaCy to ensure data suppliers provide high quality column descriptions for all datasets.
- Prepared training data for a GPT-2 language model by applying natural language processing techniques to over 1200 Capital One documents. Specifically, expanded abbreviations, then quantified the financial relevance, document similarity, and grammatical correctness of descriptions.

Computer Science Tutor   September 2018 to Dec 2019
Maryland Center for Women in Computing   College Park, MD

- Co-led guided study sessions twice a week. Reviewed different courses each semester, including: Discrete Structures (CMSC250), Programming Languages (CMSC330) and Algorithms (CMSC351).
- Individually tutored 60 students, with 140 appointments during the 2018-2019 school year.

Leadership

Technica Hackathon Design Director   January 2020 to Present

- Manage a team of 10 designers to create site prototypes, social media posts, and swag. Lead weekly meetings for design brainstorming, critiques and task updates.
- Design an online platform for hackers, mentors, and sponsors to use during our virtual hackathon. Use Figma to collaborate on prototypes. Then, handoff user flows to the tech team.

Technica Hackathon Graphic Designer   April 2019 to November 2019

Coursework Advanced Data Structures, Advanced Algorithms, Single Page Web Application Development,
Database Design, Intro to Data Science, Intro to Computer Systems, Object-Oriented Programming I & II