

Annie Lu

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Seattle, WA • US Citizen: no sponsorship needed

Education

University of Maryland, College Park

August 2017 - December 2020

B.S. in Computer Science • 3.5 GPA • Environment, Technology, & Economy Scholar

University of Washington, Seattle

September 2025 - Current

Non-matriculated Graduate Student • 3.9 GPA

Coursework: CSEP 561: Networking Systems, EE 344: Data-Driven Modeling & Machine Learning

Skills

Frontend web development: HTML, CSS/Sass, Javascript, Typescript, React, JSP

Software development: Java, Kotlin, Spring, Python, Ruby, AWS S3, AWS Lambda, AWS EC2, SQL, C, C++, OCaml, Rust

ML, Data, & Scripting: PyTorch, Matplotlib, Scikit-learn, NumPy, Pandas, Jupyter Notebook

Graphic & Web design: Figma, Adobe Creative Cloud (Illustrator, Photoshop, InDesign, After Effects)

Work Experience

Amazon, Software Development Engineer

April 2021 - November 2024

Retail, Book Incentives Team

- Launched the Kindle Rewards program in collaboration with the product, design, and tech team. Helped lead the home page implementation with the Spring framework— Kotlin, JSP, Sass, Javascript.
- Extended backend services to support “Triple Points Day” offer, which led to our most successful offer day yet, with 1.2M home page visits and 225K incremental e-book purchases.
- Integrated two microservices to display a new points component on Amazon’s detail pages. Added caching and metrics to meet Amazon storefront’s latency requirements.
- Developed “Spend X Get Y” offer card to update customer-specific offer data and grant points. Tested the responsive design across all devices (desktop, tablet, mobile browser and app).

Alexa, Automatic Speech Recognition Team

- Collaborated with data engineers and machine learning scientists to productionize Alexa’s first transformer-based language model for second-pass rescoring in C++. This led to a 12% relative improvement with the Japanese Character-Error-Rate.
- Designed and implemented subword tokenization architecture for languages without whitespace (e.g. Japanese). Caught and resolved an existing caching error, reducing latency by 0.6 seconds.
- Refactored a Python DevOps tool to streamline service metric monitoring. Implemented support for speaker ID and whisper service metrics.

Capital One Tech Incubator, Software Engineer Intern

June 2019 - December 2019

- 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.
- Prepared GPT-2 training data by applying natural language processing techniques across 1,200+ documents.

Technica Hackathon, Graphic Designer & Design Director

April 2019 - December 2020

- Led a team of 10 designers to create site prototypes, social media posts, and merchandise.
- Designed an online platform for 2000 attendees (hackers, mentors, and sponsors) to use during our virtual hackathon. Used Figma to collaborate on prototypes and handoff designs to the tech frontend team.