

# Yixuan Li

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## SUMMARY

Master's degree student with 3 years of experience in software engineering specializing in designing and developing scalable software solutions using Amazon Web Services (AWS). Seeking full-time opportunities starting in May 2025 in a fast-paced work environment with ample opportunities for learning, contribution, and growth.

## EDUCATION

### Columbia University

New York, NY

#### MS in Computer Science

- GPA: 3.9 / 4.3; Expected May 2025
- Relevant Coursework: User Interface Design, Distributed Systems, Parallel Functional Programming, Engineering Blockchain and Web3 Apps, Advanced Database Systems, Applied Machine Learning.

### Columbia University

New York, NY

#### BS in Computer Science

May 2021

- GPA: 3.9 / 4.3; Honors: *Cum Laude*.
- Relevant Coursework: Machine Learning, Natural Language Processing, Computer Vision, Computer Aspects of Robotics, Deep Learning for Computer Vision, Cloud Computing, Time Series Analysis.

## EXPERIENCE

### Amazon, Audible

Newark, NJ

#### Software Engineer

Sep 2022 - Jun 2024

- Drove enhancements in Whispersync for Voice (WfV) via on-call and weekly meetings with quality control team to enable users switching between reading a book on Kindle device/app and listening to same book on Audible using PostgreSQL, Java and Spring framework.
- Coordinated cross-functionally in Audible's partnership with Kindle Direct Publishing (KDP) to develop a new workflow with AWS CDK, Step Functions, DynamoDB, and Lambda. The alignment of ebooks with audiobooks generated by text-to-speech algorithms reached 550,000 listeners in the US.
- Jointly led development of a bundled subscription model for immersive reading, adding 8,000 additional audiobooks with extended running times ( $\geq 56$  hours) and new Digital Rights Management (DRM) types for all 3.26 million audiobook-ebook pairs.
- Collaborated with the Audiobook Creation Exchange (ACX) team to integrate audiobook publishing status updates into database using AWS SNS and SQS, ensuring "real-time" status visibility for ACX website users, reducing traffic for over 321,000 audiobooks on the ACX platform.
- Migrated a memory-intensive alignment service to AWS ECS, optimizing resource utilization, reducing latency, and improving system scalability in a cloud-native environment.
- Mentored new team members to support growth and integration into the team.

### BlackRock, Aladdin Product Group

New York, NY

#### Software Engineer

Aug 2021 - Aug 2022

- Initiated and led development to parse user-defined Javascript functions into abstract syntax trees (AST) in Java. And incorporated instrumentation to streamline debugging processes for automated order routing, reducing debugging time from several hours to minutes.
- Created and implemented front-end templates alongside new back-end features in Java and JavaScript. Automated placement of short sell orders with complete allocation, leading to a substantial increase in traders' operational efficiency and order processing speed.

## SKILLS

**Software:** Java (advanced), Python (advanced), C, C++, Golang, Haskell, Javascript/Typescript, R, Matlab, SQL

**Framework:** Amazon Web Services, Google Cloud Platform, Unix, Git, React, Docker

**Engineering:** Backend & Infrastructure, Distributed Systems, Cloud Architecture, API Development & Integration, Software Design & Coding, Data Modeling, CI/CD, Scalability, Reliability, Automation, Project Management.

**Machine Learning & Data Science:** Supervised & Unsupervised Learning, Deep Learning, Natural Language Processing (NLP), Data Preprocessing, Model Deployment, Scikit-learn, TensorFlow, PyTorch, Pandas, NumPy.

## CERTIFICATIONS

- AWS Certified Solutions Architect - Associate Issued: 7/2024
- AWS Certified Developer - Associate Issued: 7/2023