Hongyang Lin

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Education

Bachelor of Science in Computer Science
Minor in Mathematics   University of Maryland, College Park
GPA: 3.74

- University Honors College
- Dean's List (2019 – 2022)

Skills

Programming Languages and Tools:

- Proficient in Python, Java, AWS Lambda, AWS CloudFormation, AWS CDK
- Intermediate in Swift, C, JavaScript, Haskell, HTML, CSS, Ruby, OCaml
- Familiar with Rust, C++

Language:

- Native in Chinese, full professional in English

Experience

Amazon Web Services, Amazon
Software Development Engineer Intern   *Jun 2022 – Aug 2022*

- Designed a ticket triage bot that automates the workflow of processing internal tickets, reduced the time for on-call engineers to diagnose a ticket from 10+mins to about 1min.
- Adopted CDK v2 app that consists of several AWS Step Functions and AWS Lambda as the structure, deployed the app on CloudFormation.
- Wrote two design documents and organized two 30-people presentation meetings.

University of Maryland, College of CMNS
Teaching assistant of CMSC 216: Introduction to Computer Systems   *Sep 2021 – Dec 2021*

- Responsible for conducting office hours, class forum responses, and course grading.

University of Maryland, Chinese Students and Scholars Association
Technical branch member   *Sep 2019 – Mar 2022*

- Developed a web app for internal performance evaluation of CSSA members.
- Responsible for front-end functionality development of the web app, including reset user password, administration interface, and member information interface.

Projects

World happiness analysis
Programming Language: Python

- Used Python libraries including Pandas and NumPy to analyze happiness index of the world, create data visualization, and quantify happiness factors with a machine learning algorithm.
- Responsible for designing and implementing data graphs and collaboratively implementing the machine learning algorithm.

iOS Notebook App
Programming Language: Swift

- Designed functionalities including writing diaries, making to-do lists, and taking notes.
- Responsible for designing overall app logic and interface, creating app animation, share panel, and overall user interface.