

EDUCATION

- **Columbia University** New York, NY
Master of Science in Electrical Engineering; GPA: 3.63 *Sep. 2020 – Dec. 2022*
- **City University of Hong Kong** Hong Kong, HK
Bachelor of Engineering in Electronic & Communication Engineering; GPA: 3.72 *Aug. 2016 – July. 2020*

WORK EXPERIENCE

- **Amazon Web Service** Seattle, WA
Software Engineer Intern *Jun 2022 - Aug 2022*
 - Designed the entity attribute modification approval system for the AWS commerce platform entity console to help product managers to edit the AWS cloud sellers.
 - Designed the API models for the system.
 - Set up the service infrastructure with AWS CDK, API Gateway, Lambda and DynamoDB.
 - Implemented backend lambda package with the integration of Amazon Approval Service.
 - Built AWS Commerce Platform entity console dashboard pages with React and Amazon Polaris component library.
- **China Construction Bank** Shijiazhuang, CN
Software Engineer Intern *Jun 2020 - Aug 2020*
 - Implemented and delivered stable admin management system for over 7000 internal users in CCB.
 - Developed user login verification front end with React .
 - Implemented user record management module in management system with SpringBoot MySQL.

PROJECTS

- **CU Lion Net Campus BBS** Mar 2022 -May 2022
CU Lion Net is an AWS cloud-based campus bbs website specially designed for Columbia University students to share studying and life experiences and communicate via blogs.
Backend Development
 - Created user login widget with AWS Cognito to operate new user sign up and existing user sign on services.
 - Designed database schema with DynamoDB to store data for different services.
 - Built Restful API with API Gateway to realize interaction between backend and frontend.
 - Implemented Lambda Functions to manage web service logic.*Frontend Development*
 - Applied vue.js to build whole front-end application.
 - Built web pages with Vue.
- **Gomoku game based on AlphaZero** Mar 2022 -May 2022
Gomoku is a board game web application based on AlphaZero algorithm. In this application, players can play the Gomoku game with the pre-trained AlphaZero AI model or watch AI models play with each other.
Backend Development
 - Implemented AlphaZero algorithm with Pytorch and trained models. And reduced the training loss by replacing original 3-layer DNN with ResNet-18.
 - Built Flask RESTful APIs for model service supporting such as RL model uploading, player decision making, result feedback, etc.*Frontend Development*
 - Built Electron desktop game apps with React.

PROGRAMMING SKILLS

- **Languages:** Java, Python, C++, JavaScript, SQL, Smithy **Cloud Platforms:** AWS, GCP
Tools: Git, VIM
Frontend Frameworks: React, Angular **Backend Frameworks:**SpringBoot, Flask, Dagger
Deep Learning Frameworks: Keras, Tensorflow, PyTorch