

Helen (Ke Yun) Su

Email: helenkysu@gmail.com

Technical Skills

- Proficient in languages: JavaScript, TypeScript, Go, Python, Java, HTML, CSS, SQL
- Experienced in frameworks and AWS services: React, Streamlit, NodeJS, Docker, Kubernetes, Bootstrap, AWS CDK, Terraform, CloudFormation, Lambda, DynamoDB, S3, IAM, APIGateway, EventBridge, SageMaker, Bedrock, Glue, SQS, SNS, Kinesis, CloudWatch, ECR, ECS, EC2, Github Actions
- Certifications: AWS Cloud Practitioner

Professional Experience

BMO *AWS Cloud Developer*, June 2023 – Present

- developed a generative AI coding assistant using Code LLaMA with fine-tuning on SageMaker and Retrieval-Augmented Generation (RAG) via Bedrock Knowledge Bases; applied prompt engineering and built the system with Python and Streamlit to improve team productivity and streamline coding workflows
- Built a financial insights pipeline using AWS Bedrock to extract key metrics and summaries from analyst reports and earnings transcripts, using ECS and Lambda to process files, generate summaries, and produce PDF reports, significantly streamlining financial review workflows
- Implemented a robust networking solution by creating application and network load balancers and target groups, which optimized traffic distribution across containers and EC2 instances, ensuring high availability
- Led the development and automation of ECS container infrastructure, streamlining deployments and reducing downtime by resolving deployment issues, enhancing the overall resilience

Amazon *Software Development Engineer*, June 2020 – March 2023

- designed and developed a web portal application using React and TypeScript, integrated with an API Gateway and Lambda + ECS backend, resulting in increased team efficiency by enabling seamless API testing and usage
- Led transformative initiative that resulted in a remarkable two-month reduction in workload for the team, by replacing 2 existing data pipeline designs for data transfers between DynamoDB and S3, with glue ETL jobs
- Overhauled and deployed a dynamic model orchestration workflow system, which optimized the creation of new model training workflows and resulted in significant improvements in turnaround time and scalability
- Implemented an automated system failure detection mechanism that guaranteed rapid identification and resolution of bugs by leveraging Python's end-to-end integration testing capabilities
- Excelled in DevOps on-call shifts to effectively monitor dashboards, alarms, swiftly resolved tickets and authored runbooks and design documents, which enhanced team efficiency and collaboration

IBM *Software Developer and QA*, May 2018 – Apr. 2020

- Created an Angular web application that simplified and streamlined the process for developers to efficiently create test cases for frontend applications.
- Implemented features for IBM's diverse accessibility tools, ensuring inclusive user experiences and uphold accessibility standards

AIFounded *Frontend Web Developer*, May 2017 – Dec. 2017

- Collaborated on the design and development of an intuitive user interface for a cutting-edge Search Engine API, instrumental in training powerful machine learning algorithms using ReactJS, Bootstrap, and MongoDB

Education *Honors Bachelor of Science, Computer Science Specialist* at University of Toronto