Ku Young **Shin**

COMPUTER SCIENCE · SOFTWARE DEVELOPER

☐ (+1) 437-242-3440 | ✉ kuyoung0377@gmail.com | ⬛ kooku | in ku-young-shin

Education

University of Waterloo

BACHELOR OF COMPUTER SCIENCE, WITH DISTINCTION *2015 - 2020*

Professional Experience

Amazon

SOFTWARE DEVELOPER II *Sept 2020 - Present*

- Built an accounting service on AWS with E2E TLS encryption using ECS Fargate, AWS PrivateLink, and Docker
- Automated manual deployments through CI/CD and infrastructure as code (AWS CDK)
- Implemented crucial end to end updates in the financial accounting workflow to meet legal requirements
- Migrated remittance letter processing mechanism to use SNS/SQS with Lambda for scalability
- Removed manual configuration process for gift cards to reduce human errors, and introduced audit trail for traceability
- Maintained disbursement and balance tracking systems that disburse $40M USD weekly to vendors
- Saved overpayment of $189k USD to third party vendors by fixing incorrect accounting system issues to handle more usecases
- Integrated with a new third party provider for physical gift cards to increase sales by $200k USD weekly

Tableau Software

SOFTWARE DEVELOPER INTERN *Sept 2019 - Dec 2019*

- Worked in Tableau Public team that hosts a free platform to publicly share data visualizations online
- Prototyped vertical slicing of existing code base to decouple multiple code components and increase productivity

Amazon

SOFTWARE DEVELOPER INTERN *May 2019 - Aug 2019*

- Worked in Branded Gift Cards team that allows customers to purchase non-Amazon gift cards
- Prevented a potential fraud mechanism by designing and implementing a resend limiting feature for electronic gift cards
- Analyzed customer behaviour using SQL to determine the best value for resend limits
- Launched feature to production with A/B testing mechanism to prevent any latency regressions

A9.com

SOFTWARE DEVELOPER INTERN *Sept 2018 - Dec 2018*

- Worked in Visual Search Platform team that powers Amazon's visual search feature
- Improved maintainability of image match product with Data Sampler built with Lambda, ElasticSearch, and Cloudwatch
- Discovered product gaps by building a data pipeline to process failed queries with Lambda, Kinesis, and internal image matching solution
- Maintained full-stack web interface service for A9's hosted image match product

Tableau Software

SOFTWARE DEVELOPER INTERN *Sept 2017 - April 2018*

- Allowed users to give credit for their work by implementing attribution feature using Spring and Angular
- Decreased customer and internal request handling times by 50% by automation using Amazon Web Services (Simple Notification Service, Lambda), and Go
- Deployed the automation web service to Amazon Web Services using Kubernetes and Docker
- Enhanced desktop and mobile user experience by fixing responsive designs using SCSS

Technical Skills

Programming Java, Python, C++, Angular, Javascript, React, CSS/Sass, AWS
Development Tools Linux, BASH, Git, AWS CLI, Docker