Ku Young Shin
COMPUTER SCIENCE · SOFTWARE DEVELOPER

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Education

University of Waterloo

Bachelor of Computer Science, with Distinction   *2015 - 2020*

Professional Experience

Amazon   *Vancouver, BC*

Software Developer II - FX Payments & Gift Cards   *Sept 2020 - Present*

- Built a containerized payment accounting service end to end using AWS to decouple from monolithic architecture
- Reduced config update efforts in production by 50% through CI/CD and infrastructure as code using AWS CDK
- Migrated remittance letter digesting mechanism to an asynchronous task, reducing processing time from 20 hours to 1 hour
- Helped expand the team from 3 person to 7 person while reducing time to onboard and ensuring high code quality
- Maintained disbursement and balance tracking systems that disburse $45M USD weekly to vendors
- Saved overpayment of $189k USD to third party vendors by expanding accounting system to handle more edge cases
- Integrated with a new third party provider for physical gift cards to increase sales by $200k USD weekly

Tableau Software   *Vancouver, BC*

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   *Vancouver, BC*

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 $100k+ 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   *Palo Alto, CA*

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   *Vancouver, BC*

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, Hadoop, CDK, TypeScript
Development Tools	Linux, BASH, Git, Docker