Justin Cho

Software Engineer

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EDUCATION

University of British Columbia

Sep 2018 - Apr 2023

Bachelor of Applied Science, Biomedical Engineering

Relevant Coursework: Data Structures and Algorithms, Principles of Software Construction

WORK EXPERIENCE

Amazon May 2021 - Aug 2021

Software Development Engineer Intern

Remote

- Built and deployed production-ready REST APIs using Java and AWS to improve the Alexa skill development experience across various Alexa Skills Kit platforms, a development framework with 900,000+ developers
- Spearheaded the design and implementation of a cursor-based API pagination feature by driving multiple design meetings and collaborating with senior engineers to ensure internal design requirements were met
- Developed a URL-safe token-transfer service written in **Java**, to securely create and transmit JSON encoded data by leveraging symmetric key encryption via **AWS KMS** and **Jackson** modules for data-binding
- Improved response times of API endpoints by ~38% by integrating caching via Cloudformation templates

PROJECTS

Tweet Stream

- Built a serverless data pipeline using Python and AWS Lambda to process and analyze tweets in real-time
- Integrated Kinesis Firehose streams to reliably buffer and continuously load streaming data into S3 buckets
- Designed the infrastructure of data flow by developing IaC (infrastructure as code) using AWS Cloudformation

Wiki Server

- Developed a Java server application to retrieve and deliver Wikipedia page requests using the Jwiki API
- Implemented a time-dependent LRU cache, optimized for multiple users through concurrent programming
- Achieved 95% branch and code coverage with the JUnit testing framework through unit testing

PokeNest

- Built a bot written in Python that simulates a basic Pokemon game, running in the Discord environment
- Implemented an internal trading system and integrated server-side logic to handle core features of the game

Noteable

- Created a web application that allows users to convert hand-written text into a downloadable text file
- Utilized Google Cloud Platform for handwriting detection, integrated with core UI components using React

SKILLS

Programming Languages: Java, Go, Python, JavaScript, HTML, CSS

Technologies: AWS, Docker, MongoDB, Dagger 2, JUnit, Git