Kurt Choi

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https://kurtchoi.dev

EXPERIENCE

Software Development Engineer — Oct, 2021 – Present

Amazon.com — Toronto, ON

- Owned and enhanced backend subscription core technologies involving the creation of subscriptions based on customer offer eligibility, providing seamless customer experience for more than 10 million subscribers around the world
- Designed and maintained scaleable and robust APIs that are utilized to serve various Amazon internal clients that are crucial for the implementation of new features, maintenance of core functionality, and reduction of operational workload
- Engineered solutions for problems with a scope spanning multiple teams, reaching an alignment on the approach through collaborative discussions with stakeholders
- Implemented new communication approach and task effort estimation strategy to improve team's sprint completion rate by more than 15% as the team scrummaster
- Planned and executed a scale-up project preparing for Q4 for a service receiving more than 200,000 calls per minute as the team's PoC, maintaining 100% up-time during the entire Q4 peak timeframe
- Constant documentation of work has helped peers working on similar, relatable operational tasks reduce their effort required by more than 30%

EDUCATION

University of Waterloo — Waterloo, Ontario

BCS in Computer Science — June, 2021

PROJECTS

ARAM.tools | React, NodeJS, PostgreSQL, Kubernetes, CSS, REST API — Nov, 2022

- Developed a full-stack web application that analyzes and visualizes users' gameplay performance
- Utilized Riot Games Developer API to fetch and store user game data - used PostgreSQL and Django framework
- Internal API endpoints are created and utilized to analyze and generate various metrics on users' average performance
- React library is used to present visualization of these analyses
- The project is available **github.com/Hintful/aram.tools**

Conway's Game of Life Ultra | React, TypeScript — Feb, 2021

- Developed a React-based simulation for Conway's Game of Life
- Implemented various features such as iteration speed control, grid wrap-around, and template loading functionality that enhances user experience
- Designed a unique scoring-system that evaluates the score by counting the number of new cells reproduced in a limited number of iterations
- Project is deployed online at **kurtchoi.dev/game-of-life**

TECHNICAL SKILLS

Languages: Python, JavaScript (ES6), C++, C, TypeScript, Java, HTML5, CSS3

Technologies: React, Redux, Node.js, Spring, Express, PostgreSQL, MongoDB, Various AWS technologies (EC2, S3, DynamoDB, Lambda) Django, REST API, Git