Kurt Choi

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https://kurtchoi.dev

EXPERIENCE

Software Development Engineer   Oct, 2021 – Present
Amazon.com   Toronto, ON

- Worked on subscription core technologies involving the creation of subscriptions based on customer offer eligibility to provide stable customer experience for more than 10 million subscribers around the world
- Created and managed APIs that serve various Amazon internal clients that are crucial for the implementation of new features, maintenance of core functionality, and reduction of operational workload
- 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 100,000 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 - Present

- 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