Timothy Kuo

Software Engineer at AWS with strong fundamentals in backend development

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EXPERIENCE

Amazon Web Services — *Software Engineer II*

August 2019 - PRESENT

- Lead developer for multiple key services in AWS EC2, such as BlackfootService (BFS), a monitoring and command/control service for over 60,000 devices worldwide.
- Designed and implemented solution for a horizontal cliff edge in BFS, decreasing our data sharing times from 240 to 50 seconds and mitigating all impact preemptively.
- Optimized caching logic to be event driven for vital BFS API endpoints, speeding up response time by 80%.
- Designed and implemented CI/CD plan for BFS with integration test suites and canary testing, reducing ticket count by 50%.
- Trained 4 other engineers on the team on BFS and documented best practices and runbooks for the organization.

Amazon Web Services — *Software Engineering Intern*

June 2018 - August 2018

- Implemented multi-selection of objects, such as shift/ctrl-click logic, deletion, duplication, and drag-drop in AWS Sumerian using Javascript and AngularJS.

PNC Financial Services — *Application Developer Intern*

June 2017 - August 2017

- Discovered and removed unused code for a Java web application that reduced EAR file size and build/deployment time by 40%.

Bear Garden Christian Preschool — *Frontend Developer*

June 2016 - August 2016

- Designed, and developed a new website (beargarden4kids.com) for the school using HTML, CSS, and Javascript, increasing web traffic and inquiries by 60%.

PROJECTS

Mitopipeline

Python program that allows users to streamline the cleaning process of raw genome data, such as clipping, gap splitting, and NuMT alignments

EDUCATION

M.S. Computer Science, May 2019
Case Western Reserve Uni
GPA: 3.6/4.0

B.S. Computer Science, May 2018
Case Western Reserve Uni

SKILLS

Python, Go, Java, Javascript, HTML/CSS

SQL (Sqlite), Flask, Apache, AWS

Unix, Git

LINKS

www.timkuo.com

https://github.com/timmykuo