Tao Setoguchi

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PROFESSIONAL EXPERIENCE

Site Reliability Engineer

State Street Corporation   Feb. 2022 – July 2022

- Led the full development cycle of a client web app, enhancing navigation and significantly boosting customer experience.
- Engaged in daily Scrum meetings as well as identified and automated manual operational tasks, exceeding $150,000 in cost savings.
- Conducted performance testing, applied non-functional requirements, and implemented solutions to optimize multiple applications.
- Cooperated with operations teams to mitigate failure patterns, reduce downtime, and enhance overall system stability.
- Enhanced application reliability by proactively analyzing system performance, utilizing tools like Dynatrace and Splunk to detect and address anomalies

PROJECTS

The Slushie Machine

C++ Application   Jan. 2023 – April 2023

- Collaboratively developed a multicomponent digital signal processing application using C++ and the JUCE framework, designed for seamless integration into digital audio workstations.
- Adopted Git version control practices, enabling team members to construct and test components independently, enhancing workflow output.
- Utilized audio applications such as Ableton and FL Studio as application hosts to develop, test, and refine diverse UI/UX features, resulting in an intuitive user experience.

Labyrinth Game

Java Application   Sept. 2022 – Dec. 2022

- Teamed with peers to design and develop a complex, multilayered Java application simulating the multiplayer game of Labyrinth, enabling network-based gameplay.
- Developed a dynamic and scalable architecture by decoupling components and adhering to fundamental software development principles, facilitating future modifications.
- Crafted developer-facing APIs and maintainable code with comprehensive documentation, enhancing codebase quality and readability for streamlined developer onboarding.
- Separated the game logic from the communication layer to follow conventional developer design protocols.
- Employed JSON libraries such as Jackson and org.json to manipulate JSON to generate inputs and outputs for test harnesses.

EDUCATION

Bachelor of Science in Computer Science and Music Technology

Northeastern University, Boston, MA   May 2023
Khoury College of Computer Sciences   GPA: 3.75
Honors: Dean's List awarded from 2018 to 2023, magna cum laude

TECHNICAL KNOWLEDGE

Languages: Python | Java | C++ | HTML | SQL | CSS | JavaScript | MATLAB | C
Frameworks: JUCE | SQLite | PostgreSQL | Django | Flask | Bootstrap
Applications: Git | IntelliJ IDEA | Microsoft Visual Studio | Visual Studio Code | Microsoft Azure | Snowflake | Figma | Maven | pgAdmin | Eclipse | VirtualBox | Ableton | Max / MSP | Adobe Photoshop