Jason Chong

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Education

Stony Brook University Long Island, NY
Bachelor of Science in Computer Science, GPA: 3.87/4.0 *Aug 2020 - May 2024*

- Selected Coursework: Cloud Computing, Operating Systems, System Fundamentals II, Natural Language Processing, Analysis of Algorithms, Computer Networking
- Dean's List

Technical Skills

Languages: Rust, Go, Java, Typescript, Javascript, Python, C, SQL, HTML, CSS, Smithy IDL
Frameworks and Technologies: AWS, Express, Node, Spring Boot, Elasticsearch, MongoDB, NGINX, AWS Lambda, DynamoDB, Opensearch, AWS SNS, AWS SQS, Bootstrap, Dagger, DigitalOcean, UpCloud, AWS EC2, Redis, Axum, AWS SES, Docker, MicroK8s, RabbitMQ
Developer Tools: Git, CircleCI, VS Code, IntelliJ, Vim, Linux, Google Colab, Bazel, VirtualBox, Postman, Insomnia, Ngrok, GitHub, GitLab
Libraries: AWS SDK, AWS CDK, React, Jest, Mockito, PyTorch

Experience

Software Development Engineer Intern May 2023 – Aug 2023
Amazon.com, Inc. *Seattle, WA*

- Developed a rule engine notification service with **Elasticsearch**, **AWS Lambda**, **DynamoDB**, **SQS**, **SNS**, and **Java** for monitoring **all** Seller Wallet disbursements, reducing **100%** of manual on-call work across **3** different departments by automatically receiving real-time notifications for disbursements
- Implemented an interactive, user-friendly frontend with **React** and **TypeScript** for Bizops and Sales/Marketing teams, allowing an ergonomic way for users to create rules for monitoring **1000+** Seller Wallet disbursements
- Created and documented a **4000+** line codebase for the entire application using **Dagger DI**, **Jest**, **Mockito**, **AWS CDK**, and internal **CI/CD** pipeline tools to automate deployments and ensure simple maintainability for future maintainers
- Held weekly meetings with stakeholders and product managers for 30 minutes per week to discuss the status of the product and ensure essential product goals are being satisfied

Technology Intern June 2022 – August 2022
Global Infrastructure Partners, LLC *Manhattan, NY*

- Integrated **OAuth 2.0** authentication/authorization and request logging for internal access control with **Spring Boot**, **Okta**, and **Java**, reducing **hours** of bug fixing from permission errors and preventing sensitive data from being exposed
- Developed a Preqin Investor Dataloader Service to load **10000+** investor data into a **Microsoft SQL Server** database with **Java**, **Spring**, **SQL**, and **Preqin API**, reducing days of manual work to **minutes** for Business Intelligence teams to create and analyze data graphs
- Utilized **Java**, **Spring**, **SQL**, and **JPMorgan API** to create a JPMorgan Dataloader service to load **100+** investor and legal entity data into a **Microsoft SQL Server** database, transforming the data into a spreadsheet for accountant and finance teams to analyze, decreasing **hours** of manual inputting work to **20 minutes** of automation work

Projects

HoYoLINK | *Rust, Go, React, Typescript, Python, Lambda, Docker*

- Designed a Discord Bot with two other team members to provide service to a userbase of **3000+** Discord users for easily accessing their account statistics for MiHoYo games
- Devised a Youtube notification service with **Rust**, **axum**, and **PubSubHubBub** protocol for Discord servers to receive **real-time** video upload notifications in their Discord server

TicTacToe Game Server | *C*

- Engineered a multi-threaded architecture using **POSIX threads** and **socket programming** to efficiently handle multiple client requests concurrently, ensuring optimal performance and responsiveness of the game server

Google Docs Clone | *MongoDB, Express, React, Node, Elasticsearch, NGINX*

- Built a Google Docs Clone with the **MERN** stack, **Elasticsearch**, and **NGINX**, using a **distributed systems** architecture to maintain a low tail latency of **15 ms** at **1000 requests per second**
- Implemented real-time shared documents with **CRDT** frameworks like **Yjs** and **Server-Sent Events** for easy-to-use, user-friendly collaborative editing