

Jason Chong

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EDUCATION

Stony Brook University

Bachelor of Science in Computer Science, GPA: 3.87/4.0

Long Island, NY

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, Tokio

Developer Tools: Git, CircleCI, VS Code, IntelliJ, Neovim, Linux, Google Colab, Bazel, VirtualBox, Postman, Insomnia, Ngrok, GitHub, GitLab

Libraries: AWS SDK, AWS CDK, React, Jest, Mockito, PyTorch

EXPERIENCE

Software Development Engineer Intern

Amazon.com, Inc.

May 2023 – Aug 2023

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
- Utilized **AGILE** methodologies by participating in sprint planning meetings, daily stand-ups, and stakeholder meetings, contributing to the successful delivery of sprint goals and project requirements

Technology Intern

Global Infrastructure Partners, LLC

June 2022 – August 2022

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, decreasing **hours** of manual inputting work for accountant and finance teams to **20 minutes** of automation work

PROJECTS

Youtube Feed Bridge | *Rust, Axum, Tokio*

- Developed a Youtube notification service with **Rust**, **axum**, and **Tokio** as a PubSub service for subscribers to receive real-time uploads
- Implemented as a platform-agnostic service using **Docker** for users to communicate over **server sent event** streams

TicTacToe Game Server | *C*

- Implemented a game server using **POSIX threads** and **socket programming** to efficiently handle multiple client requests concurrently, ensuring optimal performance and responsiveness

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

- 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