JUN LIM

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Education

University of Waterloo *Sep 2022 – Aug 2024 (Expected)*
Master of Mathematics (MMath) in Computer Science *(co-op)* GPA: 3.9/4.00, Average: 90
Relevant Areas: Databases, Systems, Software Engineering

Monash University *Jul 2018 – Jun 2021*
Bachelor of Computer Science GPA: 3.95/4.00, Average: 87 (HD)
Relevant Courses: Algorithms, Data Structures, Databases, Parallel Computing, OS

Skills

Programming: Python, Java, C/C++, C#, JavaScript/TypeScript, Go, Bash, SQL

Technologies: MySQL, Kafka, Linux, Docker, AWS, Git, ElasticSearch, DataDog, Confluence, Jira, Azure

Work Experience

Dealer-FX – Software Developer Intern *May 2023 – Aug 2023*
Dealer Ops Integration Markham, ON

- Designed and built a command-line interface of an error handling system using **C#** and **SQS** batch to handle over 2M reports requests and reduced overall **transactional time** by over **45%**
- Developed **Python** scripts to extract over 20K of daily data in batches from **ElasticSearch (Kibana)** logs for data analysis
- Implemented **automated/nightly jobs** to process 5K+ of daily dealer reports using **AWS Lambda** and eliminated execution time by over **50 hours** per month
- Investigated high memory usage of historical reports with **memory profiler** and optimised **memory usage** by over **25%**

Delivery Hero (foodpanda) – Software Engineer *Oct 2021 – Aug 2022*
User Order and Support Singapore

- Extended job scheduler service for jobs creation and deletion to resolve customer tickets automatically using **SQS** and **DynamoDB**, impacting over **1M users** and reducing overall case **resolution time** by over **30%**
- Integrated customers, riders and vendors into a single support platform using **Go**, improving agent efficiency and customer engagement by over **50%**
- Utilised **k6** to perform load testing, analysing service requests and throughput on services endpoints
- Created service monitoring with custom monitors using **Terraform** and **DataDog** to alert critical issues and high compute usages to on-call team

Monash UReview – Software Engineer *Dec 2020 – Jun 2021*
Campus Student Feedback System Kuala Lumpur, Malaysia

- Implemented API on general surveys and student reports aggregation using **Django** and **REST**.
- Refactored and standardised API and code practices with **design patterns** to improve code maintainability.

MoneyLion – Software Engineer Intern *Dec 2020 – Feb 2021*
Banking Verification Kuala Lumpur, Malaysia

- Engineered user account status update using **Apache Kafka** and **Java Spring Boot** to eliminate manual ticket resolution.
- Built a user data migration tool for use by internal database using **SQL** to securely update **5M+ confidential transactions** of various financial providers
- Investigated and eliminated over **30% of production bugs** with **NewRelic** and reduced compute costs by over **15%**

Projects

Tutor-Student Matching App *projects/tutor-student-matching*

- Built and designed a desktop application with **Java** that connects students to tutors with bidding of subjects
- Developed using **design patterns** (i.e., adapter, observer) to support extensibility
- Applied Model-View-Controller **(MVC) architecture** to ensure maintainability, low coupling, and separation of concerns

WATDFS - Simple Distributed File System *projects/watdfs*

- Designed the system as a **Remote Access Model** and **Upload-Download Model**.
- Leveraged Remote Procedure Calls **(RPC)** to facilitate communication between the client and server, while implementing concurrency measures such as **atomic transfers**, **cache invalidation**, and **mutual exclusion**