

# JUN LIM

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## EDUCATION

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### University of Waterloo

Master of Mathematics (MMath) in Computer Science (*co-op*)

*Relevant Areas: Databases, Systems, Software Engineering*

*Sep 2022 – Aug 2024 (Expected)*

GPA: 3.9/4.00, Average: 90

### Monash University

Bachelor of Computer Science

*Relevant Courses: Algorithms, Data Structures, Databases, Parallel Computing, OS*

*Jul 2018 – Jun 2021*

GPA: 3.95/4.00, Average: 87 (HD)

## SKILLS

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

**Technologies:** MySQL, Kafka, Linux, Docker, AWS, Docker, Elasticsearch, DataDog, Confluence, Jira, Azure

## WORK EXPERIENCE

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**Dealer-FX** – Software Developer Intern

*Dealer Ops Integration*

*May 2023 – Aug 2023*

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 (Full-Time)

*User Order and Support*

*Oct 2021 – Aug 2022*

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

**MoneyLion** – Software Engineer Intern

*Banking Verification*

*Dec 2020 – Feb 2021*

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

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**TeraBytes - Tutor-Student Matching App**

*projects/terabytes*

- 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

**Dokumental - Document Readability Classification**

*projects/dokumental*

- Engineered a **neural network classifier** to predict document readability level based on user comprehension levels
- Developed the classifier in a web application with **ReactJS** and **Django REST API** for multiple files to be uploaded
- Leveraged Model-View-Template (**MTV**) **architecture** to design the multi-files upload system with **batch processing** to provide better scalability performance

**Alert Detection of Distributed Wireless Sensor Network**

*projects/alert-detection-distributed-wsn-mpi*

- Built a simulated environment of an alert detection system of sensors using inter-process communication (**IPC**) **architecture**
- Utilized **Open MPI** to design the **parallel communication** between sensor nodes of the Cartesian grid and the base station to generate an alert report