Fei Jing
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Education

University Of Waterloo **Sep. 2022 – Dec. 2023**
Master of Computer Engineering, Software Specialization GPA 3.7/4.0 *Waterloo, Ontario*

University Of British Columbia **Sep. 2016 – Apr. 2021**
Bachelor of Applied Science in Electrical Engineering, GPA 3.8/4.0 *Vancouver, British Columbia*

TECHNICAL SKILLS

Languages: Python, Java, C++, SQL
Technologies: Azure(AZ900, AI900, DP900 certified), AWS(EKS, ECR, Chalice, Lambda, IAM, S3), Elasticsearch(Search and Analytic engine), Kibana(v8+), Kubernetes, Jenkins, Git, Docker, MapReduce, Spark, Flink, Kafka, Linux, Bash, Zsh

Relevant Coursework

- Computer Networks
- Software Requirements
- Algorithms Analysis
- Distributed System
- Big Data
- Software Testing
- Formal Method
- Database and SQL

Experience

Software Engineer Intern (Backend Team) **(Remote) Sunnyvale, CA**
PepperData www.pepperdata.com *Apr 2023 - Aug 2023*

- Collaborated with the backend engineering team to leverage **Kubernetes** metrics to automate insights and recommendations. This optimized resource allocation, reducing waste by monitoring CPU and memory usage of each containers, and save up to 47% of cloud costs
- Independently Integrated Java -based performance management services with **AWS** , solved docker hub throttle issues and conducted integration tests across multiple accounts and regions
- Implemented CI/CD pipelines using Jenkins, automating build, test, and deployment processes resulting in a time saving for 5+ hours per week

Software Engineer (Co-Founder) **(Remote) Seattle, WA**
TradingFlow www.tradingflow.com *Aug 2021 - Jan 2022*

- Demonstrated Strong leadership by effectively resolving urgent customer issues, coordinating with professinal traders to optimize trading strategies, and organizing public events to increase brand awareness and engagement
- Developed algorithms in Python to evaluate individual unusual options activity and aggregated all the activities to generate stock price predictions for the next 15, 30 and 60 days
- Improved the development efficiency by mastering agile software development strategies including ticketing system, test driven development, and continuous integration and release with Codecov

Software Engineer Intern (Data Product) **Calgary, AB**
ExxonMobil corporate.exxonmobil.com *Jan 2020 - Aug 2020*

- Designed and implemented real-time surveillance tools using **SQL**, **Python**, and **SeeQ** for 100+ oil pads, resulting in significant reduction of time delay (from 15min to 1min), with automated alerts generated, saving users 2 hours per day compared to the previous tool
- Developed a cost-effective dashboard with superior customization, and sensitive data handling capabilities that outperformed a multimillion dollar software, and improved the handling of high-frequency time series data
- Extracted and analyzed data from a database and data lake using APIs to provide faster, more reliable data

Machine Learning Research Assistant **Kelowna, BC**
UBC Advanced Control Intelligent System LAB acis.ok.ubc.ca *May 2018 - Aug 2018*

- Led a team of 3 to research, design, and implement a robot operating system using Python, OpenCV and numpy library to scan objects and generate 3D simulation automatically
- Authored LibSmart, an IEEE conference paper with 78 usage counts, presenting a scalable deep-learning friendly robot task organization and incorporated a novel data graph method with distributed computing

PROJECTS

Stock Trading Platform: A full stack project used React, Typescript, Java, MySQL to effectively simulate stock tradings, conducted latency analysis on Java HotSpot, and used type checker (Java Checker Framework) to improve reliability
Sat Solver: utilized object-oriented design with C++, I crafted an efficient solution for determining the satisfiability of propositional logic formulas, demonstrating my profound understanding of complex logical structures
LibSmart: A scalable deep-learning friendly robot task organization and incorporated a novel data graph method with distributed computing written in Python , supervised by professor Homayoun Najjaran
Distributed LRU Cache System: A library deal with network latency issues, with time expiration and replication of data
Comparison Between Kafka and Flink: Graduate level course project, focus on architecture design and industrial usage