

MINGYUE (MIRANDA) TANG

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TECHNICAL SKILLS

Programming : Java, C, C++, Go, Python, SQL, HTML, CSS, JavaScript, TypeScript, PHP | JUnit, GDB, Mocha, Chai.js
Tools : Git, MERN Stack, AWS, Kubernetes, Docker, Helm, Elastic Stack, RabbitMQ, Postman, Linux, Figma

WORK EXPERIENCE

Summer Analyst in Engineering, Goldman Sachs, Toronto, ON Jun – Aug 2024

- Rebuilding an API gateway platform to leverage CI/CD pipeline management for streamlined deployments, shifting away from reliance on traditional user interfaces.

Software Development Intern, MailChannels - Email Traffic Shaping, Vancouver, BC Sep 2023 – Apr 2024

- Maintained daily operations, including feature development and bug fixes, while efficiently managing and monitoring deployments using AWS, Kubernetes, and Docker.
- Designed an efficient Go middleware to convert domain names between A-label and U-label formats for API requests, to address domain parameters appearing in multiple locations within complex requests.
- Developed MC Forest, a personal web app using MERN stack, to translate email delivery metrics into a visual, interactive graphic, underlining each customer's activity through colour variations in 2D tree representations.
- Architected a Logstash pipeline for log data ingestion in Kubernetes utilizing Helm, with RabbitMQ and Elasticsearch, validating deployments and testing throughput via Docker containers.

TECHNICAL PROJECTS

🔗 **JoBlog: Intelligent Job Application Manager** *MERN Stack, Redux, AWS* May – Aug 2024

- Built a job application management app by working in a team of 3, using MERN stack to streamline job search processes with features like a kanban-style job board, document storage, and AI-driven job description scraping.

🔗 **Wunderland: U Wonder We Wander (nwHacks)** *MERN Stack, API* Jan 2024

- Led a 24-hour team project on virtual traveling, integrating Google Maps and OpenWeather APIs to pinpoint user locations, retrieve real-time weather data, and enhance travel experiences with custom Spotify playlists.

🔗 **Lab Inventory Management System** *Oracle, PHP* May – Jun 2023

- Implemented a robust Lab Inventory Database using Oracle and PHP, seamlessly connecting purchase and current stock data to facilitate efficient tracking, organization, and advanced analysis for researchers' work.

🔗 **Mini Canvas: A Course Management Tool** *Java, JUnit, Swing, JSON* Sep – Dec 2022

- Devised a Java tool to combine course and student data for a full picture of the course and its activity.
- Performed JUnit testing and developed GUI using Swing library to visualize the grading and registration process.

ADDITIONAL WORK EXPERIENCE

Learning Labs Technical Support Student, UBC Sauder School of Business Sep 2022 – Present

- Supporting teaching scenarios by troubleshooting technical issues and acting as the primary liaison between Sauder Learning Services and faculty/staff, utilizing strong interpersonal communication skills.

Data Analytics Intern, CDC, New York University Shanghai, China May – Sep 2020

- Simplified data management of 1000+ graduates' first-destination records over 4 years by creating an automatic macro-Excel template that transforms the data management in CDC and now is their working tool.

EDUCATION

Bachelor of Computer Science (Second Degree) Sep 2022 – May 2025

University of British Columbia, Department of Computer Science, Vancouver, BC

- Grade: 95%; Computer Science Scholarship, Dean and Kitty TOYE Scholarship in Science, Science Scholar

Bachelor of Arts (Teaching Chinese to Speakers of Other Languages) Sep 2017 – Jun 2022

East China Normal University, School of International Chinese Studies, Shanghai, China

- Grade: 92%; Rank: 1/66; Achieved top rank in Data Processing, Stats, Python, C, Java, and Discrete Mathematics