# Ming Liang Dai

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Skills Summary

- Languages: JavaScript, TypeScript, Python, C, C#, C++
- Technologies: React, Vue, Node, Django, .NET, MongoDB, AWS, Azure
- Soft Skills: Leadership, teamwork, communication, hard worker, fast learner

# Work Experience

### Splunk

Software Engineer Intern - Splunk Assist

- Designed and developed telemetry collection framework on Splunk Assist, which unlocked key insights into usage patterns that PMs used to increase user engagement and adoption rate of the product
- Leveraged micro-frontend architecture to decouple Auth and Commerce team's UI code from monolithic codebase, allowing for more frequent releases, ensuring that we can respond to user feedback quickly
- Engaged UX team to provide input in the redesign and redevelopment of Splunk Assist's alert filters, reaching • a decision that simplifies information shown to the user and streamlines UX

#### NVIDIA

Cloud Software Engineer Intern – GeForce NOW

Santa Clara, CA

May – August 2022

- Led the research, design and implementation of a new access management system for the team's assets, forbidding unauthorized users from accessing resources and reducing average API response time by 200ms
- Leveraged Docker containers to build and optimize GitLab pipelines for multiple repositories by reusing • Docker images to efficiently build, test, and deploy code within a contained environment
- Implemented cron jobs using AWS Lambda to automatically update release status of team assets, reducing • manual input required from marketing team, minimizing frequency of errors, and streamlining releases

#### KPMG

Software Engineer Intern – Ignition Team

Toronto, ON

- September December 2021 Proposed a **DevOps** solution that can dynamically configure a FE build to be deployed simultaneously in production, development, and UAT environments, reducing FE team's deployment time by 80%
- Developed reusable and scalable UI components, using Vue.js and TypeScript, that intelligently prefetched • previous years' tax information, eliminating the need for repetitive user input across the product
- Designed scalable MongoDB database models alongside senior software engineers and developed efficient enterprise-level REST APIs using .NET and C#

### JamLabs Data Science

Software Engineer Intern

- Developed user authentication flow on Node.js by applying security best practices including password • hashing and signed tokens, allowing users to securely establish sessions on the company website
- Developed data ingestion pipeline using AWS Lambda functions which automatically trigger when users • upload to our company data lake (S3), processing the multiple data formats into partitioned tables
- Designed well-structured and partitioned AWS DynamoDB database models, dramatically reducing the ٠ latency of database read/write queries

## **MEGAComfort Inc**

Frontend Developer

- Redeveloped company dashboard from WordPress to React, significantly reducing load up time •
- Developed a React camera web application using OpenCV.js library, reducing the amount of required user inputs and improving user experience through advanced image processing and automatic photo capture
- Implemented 15+ resizable dashboard widgets using third-party libraries to visualize dashboard data for distributors and companies affiliated with MEGAComfort Inc

# Education

### **University of Waterloo**

Candidate for Bachelor of Applied Science: Honours Computer Engineering

President's Scholarship of Distinction (95+% admission average)

Waterloo, ON

September 2019 - April 2024

#### Mississauga, ON January – April 2021

Toronto, ON

June – August 2020

San Jose, CA

January – April 2023

LinkedIn: https://linkedin.com/in/ming-liang-dai

Portfolio: https://mingliangdai.github.io