Ming Liang Dai

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Skills Summary

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

Work Experience

Software Engineer Intern

Toronto, ON

KPMG – Ignition Team

September – December 2021

- Proposed a **DevOps** solution that can dynamically configure a single frontend build to be deployable on multiple environments (production, development, UAT), reducing FE team's deployment time by 80%
- Took **initiative** to be one of the early members of a feature team and brought feature to full production while working **collaboratively** with senior software engineers and UI/UX designers
- Developed **reusable** and **scalable** FE components, using **Vue.js** and **TypeScript**, that dynamically preloaded previous years' tax information, reducing need for repetitive user input across multiple repositories
- Designed NoSQL efficient database models alongside senior software engineers and developed efficient enterprise-level backend API using .NET and C#

Software Engineer Intern

Mississauga, ON

JamLabs Data Science

January - April 2021

- Developed authentication system on Node.js by applying best security practices including password
 hashing and signed tokens, allowing users to safely establish their sessions on the company network
- Leveraged **AWS DynamoDB's** advanced partitioning feature to build out well-structured and partitioned database models, dramatically reducing read/write run time
- Incorporated administrative functions using AWS Lambda to efficiently manage databases and user accounts on a completely serverless environment
- Integrated data processing pipeline using **AWS Lambda** to automatically trigger and provide seamless UX when users upload data to company data lake

Frontend DeveloperMEGAComfort Inc

Toronto, ON
June – August 2020

EGAComfort Inc

June − August 2020

• Redeveloped the company's dashboard portal from scratch, significantly reducing load up time

- Implemented 15+ dashboard widgets using third-party libraries to visualize dashboard data for distributors and companies affiliated with MEGAComfort Inc.
- Implemented resizable dashboard elements and **real-time data filtering**, allowing for **user customizability** and responsive, interactive **data visualization**
- Led the development of a **React** camera web application using **OpenCV.js** library to reduce the need for user inputs and improve **user experience** through advanced **image processing** and automatic photo taking

Projects

Personal Portfolio Website
 The Lemonade Stand
 Guess the League Champion
 Pixel Art Animator
 Instagram Bot
 Personal website showcasing several of my projects
 Transaction tracker app for a virtual lemonade store
 Fun browser multiple-choice game with League of Legends champions
 Image processing and animation web app using HTML canvas element
 Python script for identifying followings that do not follow back

Education

University of Waterloo

Waterloo, ON

Candidate for Bachelor of Applied Science: Honours Computer Engineering

September 2019 - April 2024

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

Interests

Personal finance, stock market, cryptocurrency, video games, computer hardware, keyboards