

JOSEPH KAN

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174 King Street Unit 215

London, ON N6A 1C6

(647) 770-5867

SKILLS

Languages: TypeScript, C++, Java, Python, PHP, SQL

Technologies: AWS, Azure, Heroku, React, Next.js, Nest, Flask, MongoDB, SQL, Firebase, Docker

EDUCATION

Western University

Honours Business Administration at Ivey Business School

Honors Specialization in Computer Science

- Pre-Ivey Cumulative GPA: 3.90/4.00; Pre-Ivey Cumulative Average: 88.8%
- Received \$10,000 Western Continuing Admissions Scholarship

London, ON

Class of 2024

WORK EXPERIENCE

Fourth Dimension

Backend Engineer for Securian Canada

- Led the development of a data processing pipeline, using AWS serverless services to parse, store, and convert millions of student's insurance data, meeting a critical delivery deadline, saving a multi-million dollar contract and B2B partnership
- Created AWS CloudFormation deployment pipeline, automating a stack of 30+ AWS services, reducing costly errors
- Optimized performance of data pipeline, improving speed and memory usage to meet changing product requirements
- Implemented industry standard Type 2 SCD data warehouse, tracking historical data while allowing changing dimensions
- Built Securian's student portal, rescuing a delayed project and allowing Canadian students to submit insurance claims

Full-Stack Developer for RESNET

- Developed an API Gateway for RESNET, a US regulator, using NestJS to improve speed, security, and maintainability
- Migrated hundreds of RESNET's slow SQL tables to MongoDB, decreasing request latency from 40s to 900ms
- Created an address correction service, correcting the identifier of 2 million records, avoiding manual correction
- Built API Dashboard using Sentry.io and Moesif to monitor production server usage, debug errors, and trace performance

Moongate

Software Engineer

- Created a Next.js web app that enables NFTs to be used as tickets to events, enabling company to raise 1 million dollars
- Implemented end-to-end encryption with APIs, protecting against malicious users and securing customer data
- Created the mobile Metamask and Phantom wallet authentication process using deep links to improve mobile UI/UX and created workarounds for Android-specific bugs to ensure the app was working on all platforms before launch

Hawkbridge Capital Partners

Investment Banking Analyst

- Completed a 12-week summer internship focusing on sell-side advisory in debt and equity capital markets
- Conducted company and industry analysis to create investment teasers and CIMs for clients in a short time window

Toronto, ON

Summer 2023

Toronto, ON

Summer 2022

Toronto, ON

Summer 2021

EXTRACURRICULAR EXPERIENCE

Mustang Capital

Global Macro Vertical Lead

- Lead a student-run hedge fund, teaching members to trade currencies, commodities, and bonds while managing risk
- Managed personal portfolio trading currencies and commodities, generating a 94% return over a year

London, ON

Sep 2019 – Present

PROJECTS

SpotiTube

YouTube – Spotify Playlist Converter

- Developed a web application that allows users to import, modify, and save YouTube playlists to Spotify
- Hosted the backend YouTube and Spotify authentication server on Heroku using Flask and built the frontend using React

London, ON

Dec 2021 – Jan 2022

ADDITIONAL INFORMATION

GitHub: <https://github.com/JosephKan3>

Website: <https://josephkan.ca>

Awards: Yale Hacks 2020 Finalist, EnactusHacks 2020 Finalist, Western University Debate Grand Finalist