

# JOSEPH KAN

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174 King Street Unit 215

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(647) 770-5867

## SKILLS

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**Certifications:** AWS Certified Solutions Architect – Associate (SAA-C03)  
**Languages:** TypeScript, C++, Python, Java, PHP, SQL  
**Technologies:** AWS, React, Next.js, Nest, Flask, MongoDB, SQL, Firebase, Docker, Pandas

## EDUCATION

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**Western University** **London, ON**  
*Bachelor of Science – Honours Specialization in Computer Science* *Class of 2024*

- Received \$10,000 Western Continuing Admissions Scholarship

**Ivey Business School** **London, ON**  
*Bachelor of Arts – Honours Business Administration* *Class of 2024*

## WORK EXPERIENCE

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**Fourth Dimension** **Toronto, ON**  
*Data Engineer for Securian Canada* *April 2024 – Present*

- Built and maintained a framework used to transition 100+ data processing pipelines into a centrally managed facility, replacing an old solution that cost millions of dollars to maintain
- Managed on-premises network infrastructure along with AWS DataSync to securely distribute production data to users
- Created payment processing pipeline, managing millions of transactions annually, and generating automated reporting
- Created admin portal for student insurance pipeline, allowing administrators to view and edit user data

**Fourth Dimension** **Toronto, ON**  
*Backend Engineer for Securian Canada* *Summer 2023*

- Rescued Securian's student insurance project, meeting critical delivery deadline after previous contractors left the project behind schedule and without any functional deliverables, saving multi-million-dollar contract and business relationship
- Led the development of a serverless data pipeline to parse, store, and transform millions of students' insurance data
- Implemented Type 2 SCD data warehouse, retaining the visibility of historical data while allowing users to modify data
- Built international student claims portal, allowing Canadian students to view and submit insurance claims
- Built CI/CD pipeline using CloudFormation to automate testing and deployment of student insurance project

*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** **Toronto, ON**  
*Software Engineer* *Summer 2022*

- 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** **Toronto, ON**  
*Investment Banking Analyst* *Summer 2021*

- Completed a 12-week summer internship focusing on sell-side advisory in debt and equity capital markets

## PROJECTS

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**SpotiTube** **London, ON**  
*YouTube – Spotify Playlist Converter* *Dec 2021 – Jan 2022*

- Developed a web application that allows users to import, modify, and save YouTube playlists to Spotify

## ADDITIONAL INFORMATION

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

**Website:** <https://josephkan.ca>

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