

# Kaiz Nanji

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## TECHNICAL SKILLS

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Languages	Python, Go, SQL, C#, TypeScript, C++, Kotlin
AI/ML	Tensorflow, PyTorch, Keras, Scikit-Learn
Tools & Libraries	Flask, Node.js, React, Next.js, .NET, Kafka, MongoDB, AWS, Docker

## EXPERIENCE

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**Adentro** May 2024 – Aug 2024  
*Software Engineer* Toronto, ON

- Developed **microservices** in Go for real-time tracking and performance analysis of advertising campaigns at Moxies
- Created a Kafka hook processor to validate and upsert **50K+** interaction events per day into Postgres, leveraging concurrency for scalability and reducing latency by 30%
- Built a conversion service that translated user interactions into attributed sightings, unlocking revenue insights through rule-based filtering and metric extraction
  - Leveraged an account cache that maps Adentro accounts to ESP accounts, reducing database lookups by **70%**
- Deployed infrastructure using Terraform, including creating secrets, database permissions, and ECS services

**Katapult** Sep 2023 – Dec 2023  
*Full Stack Engineer* Toronto, ON

- Led the development of Markette, an online marketplace facilitating investor subscriptions to private investments
- Engineered the direct investor flow using Next.js and TypeScript, allowing participation in offerings through VoPay
  - Built a secure compliance process for investor participation, utilizing KSign to enable e-signing of subscription agreements with investments totaling over **\$400** million
- Developed and designed UI for the **KYC** accreditation process to verify the identity of investors and issuers

**Uplift** Jan 2023 – April 2023  
*Software Engineer* Toronto, ON

- Spearheaded the delivery of React/Python web portal to automate investor loan sale process including approving and selecting loans, reducing processing time by **85%**
  - Implemented authenticated routes using AWS Cognito and FastAPI to invoke legacy loan AWS Lambdas and ensure secure access for the client
- Developed infrastructure to onboard a new investor, driving a **10%** boost in Uplift's loan sale revenue
  - Leveraged AWS Lambda functions to build a high-level capital loan generation system for the new investor
  - Engineered approval and rejection pipelines using AWS CodePipeline to manage loan selection outcomes

**Geotab** May 2022 – Aug 2022  
*Backend Developer* Oakville, ON

- Developed and deployed a new gRPC server for the Data Intake Gateway that processes custom telematics device data into MyGeotab, actively improving the performance of **2 million** vehicles
- Built the synchronizer project in C# to move terabytes of device records from Big Query to Redis Cache using an **LRU** replacement policy. Improved search times by **12x**
- Created end-to-end test suites for the project using xUnit, identifying 30% of the codebase as dead

## PROJECTS

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**Spaced Out** [View Project](#)

- Created an online marketplace with **100+** users to find and list affordable storage and parking options
- Integrated Mapbox APIs for geolocation and built a customized **search** algorithm to locate storage nearby
- Leveraged API Gateway and AWS Cognito to enable user sign-ins with secure endpoint authentication

### Tailor

- Designed a personalized clothing recommendation app that uses **edge detection** and a CNN-based **supervised learning** model in Python to tag and suggest clothing items based on user style preferences

## EDUCATION

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**University of Waterloo** Waterloo, ON  
*Honours Bachelor of Computer Science*

- Relevant Coursework: Computational Vision, Artificial Intelligence, Algorithms, Database Management