

Kevin Zhang

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EXPERIENCE

Patreon

May 2024 – August 2024

Software Engineering Intern

New York, NY

- Pioneered the integration of physical goods, creating a Shopify demo presented to company leads and paved the way for new project opportunities
- Designed and implemented a draft product feature in the digital commerce space, improving creator workflow
- Refactored digital product APIs to eliminate deprecated fields, enhancing data integrity and future-proofing the codebase for upcoming features

Optica Industries (Stealth)

July 2025

Machine Learning Engineer – Contract

Remote

- Built computer-vision pipelines using segmentation masks to estimate material density from industrial imagery
- Designed preprocessing and mask-cleaning workflows to reduce background noise and improve regression accuracy
- Built an image-based motor density estimator using segmentation-derived features and regression models

Netflix

Sept. 2022 – April 2023

Software Engineering Intern

Vancouver, BC

- Led the development of a GraphQL API gateway, facilitating seamless integration with Netflix's database
- Developed Check-In tool for artists utilizing Vue Apollo and GraphQL which performs requests to submit scenes
- Developed a CLI-based submission UI, enhancing user-experience by replacing a less efficient Java interface

AGF Management

Jan. 2022 – Apr. 2022

Web Developer Intern

Toronto, ON

- Administered Java PGP Encryption to secure end-of-day files to be sent to mutual fund company through SFTP
- Consolidated SIN validation through Spring Boot jQuery and JDBC Template to block 1000+ invalid entries
- Enforced new user authentication method on TurboApps clients with REST API and layered with Spring Security

Maves International

May 2021 – Aug. 2021

Full Stack Developer Intern

Toronto, ON

- Optimized and analyzed Speech-to-Text and Text-to-Speech interfaces, enhancing user-friendliness and versatility
- Enhanced Angular Anaware Speech-to-Text demo by integrating Taiga UI, improving quality and functionality
- Collaborated in cross-functional teams to troubleshoot and enhance system performance, boosting efficiency by 80%

SKILLS

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

Machine Learning / AI: PyTorch, TensorFlow, OpenCV, Computer Vision, NLP, LLMs, RAG

Backend / Web: Node.js, Express, GraphQL, React, Vue.js, Angular, HTML/CSS

Data / Infra: PostgreSQL, Firebase, Elasticsearch, AWS, Docker, Git

PROJECTS

Loafr | *TypeScript, Node.js, React, LLMs, RAG*

September 2025

- Built a cross-platform AI auto-reply system for Slack, Discord, and Teams with persona-based configuration
- Designed retrieval-augmented feedback loops allowing users to rank responses to personalize future replies
- Implemented onboarding flows, tone conditioning, and AFK summaries for non-technical users
- **Ranked Top 10% of applicants at Y Combinator (Fall 2025)**

Digi-Pets | *React, PyTorch, OpenCV, NLTK*

August 2024

- Built a React web app to capture video responses to personality-related questions for emotion analysis
- Designed and implemented an emotion ML model to break down users' facial expressions in real time
- Collected MBTI data and recent mood input, combining with NLTK for NLP-based speech pattern analysis

EDUCATION

University of Waterloo

Waterloo, ON, Canada

Honours Bachelor of Computer Science - President's Scholarship

Sep. 2020 - Dec. 2025