

# Justin Badua

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## EDUCATION

### Queen's University

Kingston, ON

Bachelor of Computing, Major in Artificial Intelligence, Minor in Economics

Expected May 2028

- Relevant Courses: Data Structures, Discrete Structures, Logic, Linear Methods for AI, Probability & Stats

## EXPERIENCE

### Tricode Cloud

Kingston, ON

Frontend Developer

Jan 2025 – Present

- Built **Clikk Apply**, application system processing **hundreds of applications** for ASUS Orientation hiring with **React, Next.js, and TypeScript**
- Created interview scheduling system with time-zone handling, conflict detection, and candidate rubric forms
- Designed **complete brand identity** including logo, style guide, and marketing assets for the company

### Oakville Rangers Hockey Club

Oakville, ON

Data Analyst & Digital Marketing Specialist

Jul 2023 – Aug 2023

- Cleaned and managed database of **1,000+ player records**, removing all duplicate entries and validation errors
- Drove **25% increase** in social media engagement through targeted digital marketing campaigns

## PROJECTS

### RL<sup>2</sup> Rocket League Agent

Oct 2024 – Mar 2025

Python, PyTorch, Reinforcement Learning

- Won **People's Choice Award at CUCAI 2025** for developing RL agent using **Proximal Policy Optimization**
- Trained agent through **self-play and reward shaping** to master complex game mechanics
- Optimized training pipeline, achieving competitive performance against established benchmarks

### MiCRA: AI Content Repurposing System

Oct 2024 – Apr 2025

Python, React, LangChain, Whisper, CLIP

- Built AI system for **QMIND x Project X Ltd.** that transforms **long-form video/audio** into LinkedIn posts, emails, and blogs
- Engineered **multi-agent pipeline** with Whisper transcription, CLIP image-text matching, and smart keyframe extraction
- Designed and developed human-in-the-loop review system for content approval with **React frontend UI/UX**

### Crankd: AI Mock Interview Platform

Sept 2024 – Dec 2024

Next.js, Firebase, Vapi AI, Gemini

- Built full-stack platform with **real-time AI voice interviews** using Vapi voice agents and Google Gemini
- Implemented authentication, user tracking, and personalized feedback system with Firebase

## LEADERSHIP & COMMUNITY

### The AI Collective – Kingston Chapter

Kingston, ON

Director of Marketing

Jul 2025 – Present

- Led marketing for Kingston chapter of global nonprofit with **70,000+ members** across **40+ chapters**
- Published **100+ posts** reaching **20,000+ impressions**; supported events with **100+ attendees**

### Queen's COMPSA Tech Team

Kingston, ON

Infrastructure & Documentation Intern

Oct 2024 – Mar 2025

- Migrated **5+ web services** to DigitalOcean, achieving **12% reduction** in downtime
- Streamlined DNS management with Cloudflare and created technical documentation for internal systems

### FIRST Robotics – FireHawks 9098

Oakville, ON

Team Captain & Media Lead

Sept 2022 – June 2024

- Led **cross-functional team of 10+ students** through robot design, build, and competition cycles with **28 wins**
- Earned **Rookie All Star, Highest Rookie Seed (x2), Rookie Inspiration (x2), and District Event Finalist** awards
- Created team brand identity and qualified for **World Championships** after competing at Georgian, Waterloo, and Ontario Provincial events

## TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Java, SQL, HTML/CSS

Frameworks: React, Next.js, Node.js, PyTorch, LangGraph, TailwindCSS, Firebase

AI/ML: Whisper, CLIP, Google Gemini, Vapi AI, Reinforcement Learning (PPO), Computer Vision

Tools: Git, DigitalOcean, Cloudflare, Figma, Adobe Creative Suite