

# James Li

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## EDUCATION

### University of Waterloo

Sep 2025 - May 2030

*Honours Bachelor of Computer Science, Co-op*

## PROFESSIONAL EXPERIENCE

### Lakes Environmental Software

Aug 2024 - Sep 2024

*Software Development Intern*

*Waterloo, ON*

- Engineered and delivered a high-performance, multi-language data processing and visualization tool
- Self-taught C# on-site and shipped a fully functional .NET Core program in under a week
- Optimized MSSQL data pipeline to efficiently parse millions of log entries
- Achieved performance of over 1M bytes per second on a single machine through a parallelized batch inserts
- Visualized 1.5M+ lines of log data (spanning several GB) on a Streamlit dashboard with Plotly.io

### Tauria

Jul 2024 - Aug 2024

*Junior Software Developer*

*Waterloo, ON*

- Engineered and trained a custom LLM model using Langchain and Chainlit, with vectorized PDF files
- Deployed enhancements to Tauria's video conferencing app (10000+ registered users)
- Bundled a cross-platform desktop application using Tauri and Rust
- Developed automated end-to-end tests with Playwright, covering over 100 test cases across user workflows
- Engineered authentication testing pipelines with temporary email services for seamless login flow validation

## PROJECTS

### Phuture — Pokemon-Go for Wildlife 🐾 | *Docker, Node.js, Redis, RabbitMQ, PostgreSQL*

- Co-Founder of phutureai.com 🐾; attracted 30+ early adopters to a waitlist for alpha testing
- Engineered a scalable backend from scratch with Node.js, Redis, Docker, and RabbitMQ
- Implemented security scripts for PostgreSQL and automated health checks for Docker containers
- Orchestrated Docker containers on AWS ECS; Significantly reduced deployment time based on CI/CD logs

### Guideline — AR Breadboarding Guide (Jamhacks Runner-Up) 🐾 | *Kotlin, MongoDB, OpenCV, Next.js*

- Developed a Next.js web-app with dynamic, Vercel hosted QR code routing and MongoDB integration
- Contributed to Kotlin and OpenCV development for breadboard algorithms and AR features

### Neo Developer League — Founder and Chair (Raised \$11k) 🐾 | *React, Supabase, OAuth*

- Founded neoleague.dev 🐾, a non-profit org: Hosted 100+ participants and raised \$11k in 2024
- Backed by Convictional (YC W19), Den1880, and the WRDSB school board (65k students)
- Crafted an animated landing page with Tailwind and Framer Motion; attracted more than 200 registered users
- Engineered a secure, role-based dashboard with OAuth and Supabase, streamlined with GCP

### IdentiBear — ML Model for Dementia (Hack the 6ix Top 5) 🐾 | *Python, Flask, Streamlit, Keras*

- Integrated a custom webcam tool with Streamlit and Flask for seamless functionality and real-time data capture
- Trained a Keras-based ML model to accurately identify 5 individuals within 24 hours

### Weathermap — Geo-Pinpoint Weather Application 🐾 | *MERN Stack, React Leaflet*

- Designed a modular Node.js backend with RESTful API calls for weather data integration
- Optimized MongoDB schema for fast geospatial queries and scalable data management
- Built an interactive map-based UI with React-Leaflet, enabling real-time location visualization

## TECHNICAL SKILLS

**Languages:** Javascript, Typescript, Html5, CSS3, C#, Python, Processing, Rust

**Frameworks:** React, Node.js, Express, FastAPI, ASP.NET Core, Tailwind, Vue, Streamlit, Tauri

**Tools:** Docker, MongoDB, PostgreSQL, Supabase, Redis, RabbitMQ, Playwright