# Ian Korovinsky

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## Education

**University of Waterloo** — Waterloo, ON
*Bachelor of Engineering in Software Engineering* — *September 2023 - Present*

- Co-Director at Hack the North - Canada's Largest Hackathon
- Over $420,000 in scholarship offers, including Schulich Leader ($120,000) @ McGill University
- Former Cybersecurity Club President, Waterloo Blockchain Director of Events, & Velocity and Eigenspace Fellow
- University of Waterloo Youth and Innovation Project National Advisory Council Member

## Experience

**Software Engineering Intern** — January 2025 - Present
*Bloomberg* — *New York City, NY*

- Leveraged support vector machines (SVMs) to create a classification system supporting millions of datapoints
- Implemented a data-cleaning AI agent for pre-processing datasets used for training machine learning models

**Software Engineering Intern** — May 2024 - August 2024
*Bloomberg* — *New York City, NY*

- Integrated semantic search for Bloomberg's trading compliance manager for 1600+ corporate clients using JavaScript and Python, leveraging embedding models and Apache Solr for NLP-powered data retrieval
- Developed an agnostic retrieval-augmented generation framework from scratch for internal usage using Python
- Prototyped a semantic parsing framework, leveraging LLMs to automate trading workflows given user prompts
- Co-organized the Asset Management Compliance Summit - a two week testathon for internal engineering teams

**Data Science Intern** — July 2023 - September 2023
*Responsibli.ai* — *Toronto, ON*

- Spearheaded the creation of company-wide pipelines for generating and aggregating corporate data of 1M+ companies from international business registries (SEC EDGAR, Corporations Canada) using Python and SERP
- Implemented undetectable web bots for data scraping using Selenium, BeautifulSoup4, and third-party libraries
- Iterated through the project lifecycle, including systems design, development, and testing processes, in 8 weeks

**Provincial Executive Officer** — June 2022 - June 2023
*Ontario DECA* — *Toronto, ON*

- Ranked fifth place internationally in the pitch competition and was awarded 1 of 5 DECA Inc. $5000 USD Scholarships and the Emerging Leader Honor Award amongst 226,000 student candidates
- Spearheaded the acquisition of more than $150,000 in sponsorship funding and managed 30+ corporate contracts
- Assisted in the organization of 8 province-wide conferences for over 15,500 students at venues located in Toronto, Waterloo, etc., made possible through a strategically-managed multi-million dollar budget
- Developed the Ontario DECA website used by over 15,500 students and 5,200 mentors across 200 schools

## Projects

**Portal** | *Python, Semantic Search, Next.js* — September 2023 - August 2024

- Developing an ambient computing AI agent, supercharging peoples' productivity through a second brain
- Implemented and optimized the backend processes for generating vector embeddings for audio and video data and evaluating cosine similarity, and enabled faster semantic search capabilities
- Designed the website frontend using Next.js and integrated with the backend through a Python microservice, implementing a vector database for RAG search and retrieval capabilities
- Backed by the Velocity and Eigenspace incubators, and advised by FAANG engineers

## Technical Skills

**Awards**: Hack The North 2023 Finalist (Winner), Velocity Innovation Challenge 2023 (First Place), Ignition Hacks 2023 (Second Place and Most Innovative Hack), picoCTF Global Cybersecurity Competition (Second Place Canadian Solo), UWaterloo Pearl Sullivan Hack The North Award, The Governor General's Academic Medal, R2AC Top 21 Under 21
**Coding Languages**: Python, JavaScript, Java, C, SQL, HTML/CSS, Kotlin, TypeScript
**Frameworks**: React.js/Next.js, Node.js, Flask, PyTest, MaterialUI, Tailwind CSS, Flask, FastAPI, Django, Weaviate
**Developer Tools**: Git, Docker, Amazon Web Services, Microsoft Azure, Google Cloud
**Languages**: English (Native), Russian (Native), French (Fluent), Ukrainian (Proficient), Mandarin (Basic)