Ian Korovinsky

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EDUCATION

University of Waterloo   Waterloo, ON
Bachelor of Software Engineering, Cumulative GPA: 3.879   *September 2023 - Present*
- University of Waterloo Youth and Innovation Project National Advisory Council Member (2022 - Present)
- Former Cybersecurity Club President, Waterloo Blockchain Director of Events, and Eigenspace Fellow

TECHNICAL SKILLS

Awards: 10x Hackathon Winner, $430,000+ in Scholarship Offers, Governor General's Academic Medal
Coding Languages: Python, JavaScript/Typescript, C++, SQL, HTML/CSS, C, C#, Java, Solidity
Frameworks: FastAPI, PyTorch, LangChain, Next.js, Node.js, Tailwind CSS, Flask, Django, Apache Solr, Prisma
Developer Tools: Docker, AWS (EC2, Lambda, S3, DynamoDB, Sagemaker), GCP, Azure, Figma, Jenkins, Git

EXPERIENCE

Bloomberg   January 2025 - Present
Software Engineering Intern - Asset Management Compliance AI   *New York City, NY*
- Implementing an **AI agent-based recommendation engine**, aiming for a **30% increase in search accuracy**
- Fine-tuning a **RoBERTa model** using **PyTorch** and **Transformers** for a **790+ class** classification problem
- Researching the performance of **logistic regression**, **support vector machine (SVM)**, and **KNN models** using **scikit-learn**, **numpy**, **pandas**, **matplotlib**, and **nested cross-validation techniques**

Sibli   October 2024 - November 2024
Software Engineer - Mentat   *Toronto, ON*
- Improved computational speed by **500%** by redesigning and rewriting a **C# ETL data-parsing pipeline** in **Python**, utilizing **SQLAlchemy** for data storage and **openpyxl** for extracting data from Excel spreadsheets
- Contributed to **5 graph algorithms** in **Neo4j (Cypher)** and **Python**, enabling the extraction of **algebraic and topological relationships** between datapoints in financial models

Bloomberg   May 2024 - August 2024
Software Engineering Intern - Asset Management Compliance AI   *New York City, NY*
- Developed a **semantic search service** powering compliance search workflows serving **1,600+ clients** across **5 cross-org products** in **10 languages**, leveraging **JavaScript**, **Python**, and **Apache Solr**
- Designed an **NLP-based structured data extraction framework** using **Langchain** and **ReAct agents** to support automated compliance rule generation from user search inputs
- Co-organized a **two-week testing summit** for **60+ engineers** that increased test coverage across **14 projects**

Hack the North   March 2024 - Present
Co-Director & Logistics Organizer - Leadership & Logistics   *Waterloo, ON*
- Leading a team of **45+ organizers** to successfully host Canada's largest hackathon for **1000+ hackers**
- Coordinated **200+ mentors** and 1:1 project coaches, which contributed to **235 projects** in **36 hours**
- Organized **20+ workshops and panels** focused on software development, attended by hundreds of hackers

Responsibli   July 2023 - September 2023
Data Science Intern - Data Science Platform   *Toronto, ON*
- Achieved **$49,000+ in savings per year** by creating **ETL data pipelines** to aggregate corporate data from **1M+ companies** from international business registries using **Python** and **SERP**
- Developed **web-scraping tools** for data collection using **Selenium**, **BeautifulSoup4**, and **reverse proxies**

PROJECTS

Axiom | *Next.js, Typescript, Y.js, Socket.io, Express, SQLite, Prisma*   🔗
- Developed a **custom programming language editor** for University of Waterloo's **SE212 logic course**
- Implemented **advanced Monaco Editor features** such as syntax highlighting, code completion, and reference lookups, enhancing user experience for logic rule-based programming
- Engineered a **real-time collaboration system** using Express, Socket.io, Y.js, and SQLite, enabling live presence tracking and collaborative editing for group projects
- Deployed the editor on university servers as a course resource for **130+ Software Engineering students**