Yair Korok

🌐 yair.ca | ⚫ github.com/yair-k | ‹/› devpost.com | 📞 647-621-0645 | ✉ yairkorok9@gmail.com

TECHNICAL SKILLS

Languages: Java, C/C++, C#, Python, GoLang, JavaScript, HTML/CSS, Assembly, COBOL

Frameworks: React, Next.JS, Node.JS, Express, Flask, JQuery, RestAPI, Tailwind, Bootstrap, Three.js, Typescript

Developer Tools: Git, Linux, Docker, Figma, Excel, MongoDB, AWS, Google Cloud, Azure, PostgresSQL/MySQL

Libraries: pandas, NumPy, Matplotlib, Keras, OpenCV, Jupyter, Tensorflow, PyTorch

Soft Skills: Communication Skills, Leadership, Team-Player, Motivated, Troubleshooting, Problem-Solving, Decision-making, Attention to Detail

Other: Photoshop, Video-Editing, Graphic Design, Football

EXPERIENCE

AI/NLP Data Trainer | *Cohere (Contract Role)*   *March 2025 — Present | San Francisco*

- **Reviewed, ranked, and validated** AI-generated code responses to enhance model accuracy and efficiency across multiple programming languages, including **Python, JavaScript, and unknown languages**.
- **Conducted in-depth audits** on AI-generated code, identifying and correcting syntax errors, logical flaws, and inefficiencies to refine model performance.
- **Optimized NLP and code evaluation workflows** by designing **scalable validation processes** that improved the precision and adaptability of AI-assisted programming.
- **Developed, fine-tuned, and validated AI-generated code responses**, leveraging **software engineering expertise** to enhance **model accuracy** while collaborating with **cross-functional ML teams** to improve **data pipelines, annotation frameworks, and AI-driven code evaluation mechanisms**.

Software Analyst 🔗 | *Canaccord Genuity Inc.*   *June 2024 - December 2024 | Toronto, ON*

- **Developed and optimized** a landing page for a **$100B company** using **TypeScript, Next.js, and GSAP**, enhancing user engagement with interactive animations.
- **Increased front-end performance by 300%** and contributed to a **14% revenue boost** by implementing **data-driven personalization strategies**.
- **Built AI-driven automation tools** with **Python, JavaScript, and Node.js**, integrating with **Salesforce** to streamline **financial reporting, client outreach**, and **site inventory tracking**, reducing manual workload by **50%**.
- **Engineered AI-powered content tools** to automate podcast-to-video transformation, cutting editing time by **70%** while maintaining high engagement.

Web Agency Founder/Developer 🔗 | *Tronic Web Agency Inc.*   *December 2023 — Present | Vaughan, ON*

- **Founded** a **6 Figure** Web development business that attracts over **35k monthly viewers** and does **$28k+** of sales.
- **Partnered** with major businesses and brands, including **$CRASH**, a **$900M Ethereum coin**, **Teaforguys** ($30K monthly sales), **Smarter.loans** (used by 15K Canadian businesses monthly), and **Live Better Travel**, a Bolivian medical tourism agency.
- **Created award-winning website designs**, recognized by **Awwwards** and **CSS Design Awards**.

Startup Co-Founder & CTO 🔗 | *Flair Studio Inc.*   *March 2024 — Present | Toronto, ON*

- **Co-founded** an AI-powered shopping aggregator and social platform revolutionizing online fashion discovery through **autonomous web scraping, recommendation algorithms, and interactive user closets**.
- **Led** backend development using **Flask**, **AWS Lambda**, and **MongoDB**, designing a scalable architecture that supports **real-time data processing** and AI-driven search.
- **Developed** the frontend prototype with **React Native** and **Next.js**, integrating **Framer Motion** and **GSAP** for smooth animations and an immersive shopping experience.
- **Built AI-powered recommendation systems** utilizing **collaborative filtering, content-based filtering, and reinforcement learning** to personalize user feeds and enhance product discovery.

PROJECTS

Klean 🔗 | *1st Place Winner @ FallHacks* | *Python, AI, Microsoft CodeBERT, AWS, Google Cloud*

- **Engineered** an enterprise-level digital waste, code cleaning solution achieving **60% reduction in computation waste**, **45% decrease in carbon emissions** across projects hosting on **AWS/Google Cloud**.
- **Leveraged AI refactoring** and **Microsoft CodeBERT**, optimizing over **10 million lines of code** at maximum capacity for firms and institutions.

Project Bergster 🔗 | *Winner of Google Student Developer Hackathon @ UofGuelph* | *Next.js, AWS, Tensorflow, ML*

- Created a **cognitive therapy** replacement platform relying on emotional detection, operating using **Computer Vision** utilizing **Python, Tensorflow** & **FaceAPI.js**.
- **Ensured** offline functionality upheld **100% data privacy** and significantly reduced dependency on traditional therapy sessions, leading to a significant **decrease** in therapy-related costs for **educational institutions**.
- **Scaled** and **Implemented** Bergster as a research tool, now used by **30+ students** at my school.

SOLAR 🔗 | *1st Place Winner @ Hack 4 Humanity* | *C#, Unity, Microsoft HoloLens, Azure API*

- **Developed** an **AR tool** with **real-time object recognition, text-to-speech**, and **facial detection** to improve accessibility for users with vision and cognitive impairments.
- **Integrated** with **Microsoft HoloLens**, processing **live video** in **real time** using **Azure Cognitive Services** and Unity.
- **Implemented custom zoom, text-to-speech**, and **facial recognition**, boosting user task efficiency by **38%**.
- **Optimized** for **legacy hardware**, cutting RAM and network use by **45% respectively** while maintaining responsiveness.

EDUCATION

McMaster University   *Hamilton, ON*
BEng. Bachelor of Engineering