Michal Buczek

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EDUCATION

UNIVERSITY OF TORONTO   Mississauga, ON

Honours Bachelor of Science   Expected graduation April 2027

Specialist Computer Science; Business Minor; Co-op internship program

Recognitions and Awards: Principal's Scholarship and Dean's List Scholar.

Relevant Coursework: Software Design; Software Engineering; Data Structures & Algorithms; Software Tools & Systems;

SKILLS

Languages: Python, Java, Javascript, Typescript, C, SQL, HTML, CSS, RISC-V

Frameworks & Libraries: React, Next.js, Node.js, Express.js, Django, Tailwind, Chart.js, Recharts, Puppeteer

Databases, Tools & Technologies: PostgreSQL, MongoDB, Supabase, S3, Vercel, OpenAI, Cohere Embed, LangGraph

WORK EXPERIENCE

INSURIE AI   Mississauga, ON

Founding Engineer   June 2025 – Present

- Built a RAG agent for dynamic life insurance quotes and plan recommendations using OpenAI and Perplexity APIs; boosted accuracy from 43% to 95%+ via argument extraction and optimized SQL search on underwriting guidelines.
- Designed a multi-model AI pipeline for prompt parsing, reasoning, and response generation.
- Created a data schema to extract user inputs from prompts and integrate with Compulife's quote API.
- Developed comparison charts (Recharts), automated broker emails, and key frontend components.
- Implemented an efficient chat history retrieval system.

WEALTHSEED   Remote

Founding Developer & COO   Sep 2024 – Present

- Built scalable, visually polished course pages and components using React, Tailwind CSS, and TypeScript
- Designed Supabase API routes and integrated class control, user data, and progress tracking via Next.js and PostgreSQL.
- Led SCRUM-based lean development and business operations; conducted competitor analysis & go-to market strategy.
- Secured 3rd place at Enactus Regionals ($500) and pitched at RCVC Venture Summit (150+ attendees), driving early traction.

DATA ANNOTATION TECH   Remote

AI Trainer (Coding)   Feb 2024 – Present

- Reviewed 200+ AI-generated coding responses for accuracy, clarity, and alignment with programming prompt intent.
- Provided structured feedback to refine LLM input handling and improve code quality across multiple languages.
- Authored original data structure problems with optimized solutions to strengthen AI problem-solving capabilities

PROJECTS

OPS BRAINWORKS – ONTARIO PUBLIC SERVICE'S SOCIAL MEDIA FOR INNOVATION   Aug 2025

- Built a full-stack web app with React (Vite) and Express.js to let OPS employees collaborate and improve public services.
- Prioritized accessibility, intuitive UX, and clean architecture across frontend and backend components.
- Demoed the project at a Software Engineering Showcase Event hosted by UofT

GOAL SETTING, TRACKING & SCHEDULING WEB APP **(DJANGO & BOOTSTRAP)**   Sep 2024

- Personalized and secure user account system with goal-setting data stored on a SQLite database.
- Created and scaled a self improvement focused Instagram brand following of over 2000 people.

SOFTWARE TOOL ANALYSIS AI AGENT   April 2024

- Built an AI agent which compares and evaluates software tools. Built using Python, LangGraph and OpenAI API.

ACTIVITIES & VOLUNTEERING

PRESIDENT & CO-FOUNDER – GROUND-UP STARTUPS UTM   Mississauga, ON

Led 6-person exec team across core functions. Established goals and ensured quality execution.   July 2025 – Present

COMPUTING EDUCATION RESEARCH READING GROUP   Mississauga, ON

Discussed and critiqued computer science education literature to determine ways of optimizing curriculum.   Jan 2025 – Present

UTM HOCKEY STUDENT ATHLETE   Mississauga, ON

UofT tri-campus athlete of the week March 26, 2023.   Sep 2023 – Present