

Michael Zhou

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EDUCATION

University of Toronto

Honours Bachelor of Science in Computer Science and Statistics

Toronto, ON

Expected Apr. 2028

- Relevant Courses: Data Structures & Algorithms, Systems Programming, Software Engineering, AI/ML, Database Systems, Regression Analysis
- Awards: Dean's List (2023, 2024, 2025), University of Toronto Entrance Scholarship (2022)

EXPERIENCE

AMD

Incoming Software Engineer Intern

Markham, ON

May 2026 – Aug 2027

- Data & ML Infrastructure

Intact Financial

IT Business Analyst Intern

Toronto, ON

Sept 2025 – Present

- Developed a Python Streamlit interface leveraging Snowflake's Cortex Agent API to surface rejected-claim causes and potential fixes, cutting analysis time from hours to minutes for internal teams.
- Created Snowflake semantic views with precise business definitions to enable the LLM to interpret data correctly and support natural-language querying without SQL, reducing manual query time by 30%.

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Software Developer Intern

Vaughn, ON

Sept 2024 – Dec 2024

- Automated bulk data entry into online databases with Python, pandas, and requests, doubling processing speed and reducing manual effort by 2+ hours daily.
- Developed a Python reporting pipeline with pandas and python-docx, using direct Office Open XML manipulation to fully automate report generation and cut manual effort by 90%.
- Built predictive maintenance tools using pandas and the Reliability library to calculate component failure probabilities, delivering scalable site-wide reports that supported proactive maintenance planning.

Data Analyst Intern

Jan 2024 – Apr 2024

- Automated a monthly 20-page Excel report in PowerBI, saving 7 days of manual work per month, improving report accuracy and enabling leadership to access insights in real time.
- Built predictive models with NumPy and pandas to forecast part usage and failure patterns, enabling proactive maintenance scheduling that reduced overdue amounts by \$80M.
- Cleaned and processed \$50M parts data, correcting part numbers and change-out intervals, reducing errors by 40% and improving forecasting accuracy.

PROJECTS

Stock Market SNS | *React.js, Node.js, Express.js, PostgreSQL* [GitHub]

April 2025

- Built RESTful API endpoints with Express.js and PostgreSQL to support user authentication, portfolio tracking, and stock data management, enabling full CRUD operations for 1,000+ stock records.
- Optimized SQL queries with indexing and caching, reducing response times by 10% for large stock datasets and improving application scalability.

Grant Service | *Svelte, Shadcn, PrismaDB, Supabase, Docker, Vercel* [GitHub]

March 2024

- Developed and deployed a full-stack grant management app with SvelteKit and Shadcn/UI, delivering a responsive UI with consistent sub-200ms load times in testing.
- Implemented automated CI/CD pipelines on Github and Vercel, reducing deployment cycles from 2 hours to under 10 minutes and enabling weekly releases.

TECHNICAL SKILLS

Languages: Java, Python, C, C++, JavaScript, Bash, SQL

Frameworks and Tools: Git, Linux, JIRA, Firebase, PostgreSQL, React.js, Node.js, Express, HTML, CSS, Docker, Snowflake, AWS, PowerBI