

# VINCENT WONG

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## EDUCATION

### Ontario Tech University

Expected: Apr. 2027

*Bachelor of Science, Computer Science*

*Oshawa, ON*

- Relevant Courses: Scientific Data Analysis, Data Structures & Algorithms, Computer Architecture

## EXPERIENCE

### Software Engineer

July. 2025 – Present

*Ontario Tech Racing*

*Oshawa, ON*

- Maintained and optimized **3+** team websites, improving uptime to **99.9%** and reducing reported issues by **30%**
- Developed internal file storage software for the business team, reducing manual tracking time by **40%**
- Implemented performance monitoring tools and security updates, cutting page load times by **20%**

### IT Architect Intern

Jul. 2025 – Present

*Fidelity Investments*

*Toronto, ON*

- Partnered with **5+** architects to standardize app controls, reducing remediation time by **20%**
- Automated reporting by extracting **Jira API** data, eliminating manual updates and saving **10 hours/month**
- Documented architecture decisions ensuring alignment with **cloud security** and **compliance standards**

### ML Engineer Intern

Jan. 2025 - Jul. 2025

*Fidelity Investments*

*Toronto, ON*

- Created **15+** ETL pipelines with zero critical downtime, ensuring reliable data for analytics and reporting
- Applied ML for sentiment & trends analysis across articles informing product & marketing decisions
- Automated **Tableau** refreshes using a **Python** and **AWS Batch**, saving **50 hrs/m** and reducing stale data
- Utilized **SQL** on **Snowflake** to analyze **5M+** rows, identifying churn drivers and informing retention strategies

## PROJECTS

### Volt: OS-Native AI Assistant | *React, Electron.js, FastAPI, ChromaDB, MCP*

- Engineered an **Electron** app for document querying and task automation via **MCP**, achieving **93%** accuracy
- Automated repetitive tasks and streamlined onboarding through **MCP**, saving time for students and teams
- Drove **5,000+** interactions and **50+** early-access sign-ups, validating demand and building a waitlist
- Attracted **DMZ** interest and met with the team, advancing toward pilots and funding opportunities

### Nexus: Centralized Productivity Hub (Hackathon Winner) | *Electron.js, FastAPI, Langchain, Firebase, PineconeDB*

- Developed a productivity hub for notes, event planning, with a chatbot improving preparation efficiency by **30%**
- Integrated RAG with **Langchain** and **PineconeDB** for fast, accurate file queries
- Created an AI scheduler with **Azure Logic Apps** + **GPT-4**, simplifying multi-calendar planning
- Added secure **Firebase Auth** and an interactive **Electron** UI, improving login success to **99%**.

### Trash Tech: Smart Waste Classification Tool (Hackathon Winner) | *Python, OpenCV, React, Azure*

- Built a **Full-Stack** AI waste-classification app with **React** + **Javascript**, enabling instant, on-device predictions
- Trained model via Azure ML achieving **97% accuracy** using supervised learning
- Enabled instant upload & classification through a responsive web UI, reducing identification time to seconds

### Prepifi: AI-Powered Interviewer | *React, FastAPI, MongoDB, Electron*

- Built **React** + **TypeScript** AI-driven interview preparation platform simulating realistic interview environments
- Integrated **OpenAI** for TTS and STT, and **Cohere** for real-time feedback and conversational AI
- Developed a **React** frontend with a **Django** backend, providing a seamless, stable user experience

## TECHNICAL SKILLS

**Languages.:** Java, Python, C++, HTML, CSS, JavaScript, SQL, React, NodeJS, FastAPI, MongoDB, Electron, Swift  
**Developer Tools:** Azure, AWS, Github, Cursor, Figma, Claude Code, Tableau, Snowflake, Informatica Cloud Services  
**AI/Machine Learning:** HuggingFace, RAG, LangChain, OpenAI API, Pandas, NumPy