

Zhanxu Ye

Honours Computer Science Co-op Student



647-834-9930



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Zhanxu Ye



<https://github.com/Zhanxu-2003>

HIGHLIGHTS OF QUALIFICATIONS

- Currently enrolled in level 3 of the 5-year Honours Computer Science co-op program at McMaster University
- Accumulated four months of co-op experience at an industry-leading company, enhancing project management, teamwork, and leadership capabilities.
- Skilled in using the Django framework for backend development, enhancing the security and user account management of web applications.
- Utilized Jupyter Notebook and pandas for the analysis of large datasets, extracting key information for data-driven decision-making.
- Possess a diverse skill set, adept at advanced language processing and data retrieval using OpenAI API and Serp API, integrated with LangChain for effective workflow automation.

EXPERIENCE

Software Developer Co-op [Link to Certifications](#)

Lootom Telcovid Network, Wuxi, China

June - August 2023

- Participated in the back-end development of an online shopping mall using Python and Django, focusing on user account functionalities including registration, login, password encryption, and security verifications.
- Developed the product management module, handling product listings, inventory tracking, and categorized browsing.
- Designed and implemented a user behavior-based product recommendation system, using Python for data analysis and Django for back-end logic.
- The system provides real-time, personalized product suggestions by analyzing users' browsing history, purchase records, and preferences.

Remote Data Analysis Co-op [Link to Certifications](#)

Huijue Network, Shanghai, China

September - October 2023

- Focused on using Python and its Pandas library for data analysis, supporting data processing and research projects.
- Primarily used Jupyter Notebook for developing data processing scripts, responsible for data cleaning, transformation, and aggregation, building an automated data preprocessing workflow to support in-depth analysis.
- In close collaboration with the remote team, with weekly online meetings, I proactively led the integration of data analysis results, ensuring seamless data flow across workflows, thereby enhancing cross-departmental project collaboration efficiency.

SKILLS

Front - End:	HTML	CSS	JavaScript	TypeScript	Elm	
Back - End:	Python	Java	C	Go	Haskell	Prolog
Frameworks:	Django	LangChain				
Graphic Programming:	OpenGL	Processing				
API Integration:	OpenAI API		Serper API		Hugging Face Hub API	
Others:	Linux	Latex	Jupyter Notebook		Markdown	

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EDUCATION

Bachelor of Applied Science,
Honours Computer Science

Mcmaster University, Hamilton ON

September 2021-April 2025

- Received the McMaster entrance scholarship for an 97% grade-point average in high school.

PROJECTS

Algorithm Design and Urban Traffic System Application

[Link to Demo](#)

[Link to Analysis](#)

[Link to GitHub](#)

- **Performance Analysis:** Evaluated and analyzed shortest path algorithms for efficiency by using Python.
- **Algorithm Benchmarking:** Developed and compared A* to Dijkstra's, noting situational benefits.
- **Transit Optimization:** Enhanced London Underground routing and efficiency with algorithms.
- **Codebase Refactoring:** Improved a project's maintainability and scalability with UML standards.

Personal Finance Analytics Suite

[Link to Demo](#)

[Link to GitHub](#)

- **Unified Dashboard:** Crafted a dashboard for at-a-glance views of financial activity, spending breakdowns, and trends.
- **Expense Tracking:** Implemented a user-friendly web application for efficient financial tracking and literacy.
- **Back-end Excellence:** Leveraged Django and Python for powerful back-end integration and processing.
- **Adaptive Interface:** Engineered a responsive design with HTML and CSS for cross-device compatibility.

Intelligent Report Analyst

[Link to Demo](#)

[Link to GitHub](#)

- **AI Integration:** Leveraged OpenAI and Serp API for language processing and data retrieval, orchestrated by LangChain and Python.
- **Intuitive Design:** Built a swift search interface for topic analysis and newsletter summarization.
- **Streamlined Automation:** Implemented extraction of essential details, crafting tailored summaries and newsletters.

Stock Market Data Analysis

[Link to Demo](#)

[Link to GitHub](#)

- **Project Leadership:** Guided a stock market analysis using Python and Jupyter Notebook for complex data processing.
- **Data Handling Expertise:** Utilized pandas for adept manipulation and exploration of large datasets.
- **Analytical Insights:** Examined the correlation between stock price fluctuations and daily returns, uncovering key market trends.