

Jason Zhu

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EDUCATION

Bachelor of Computer Science, Honours Co-op | University of Manitoba

September 2018 - Present

Faculty of Science GPA: 4.25 / 4.50

Expected Graduation: Fall 2025

Awards: Dean's Honour List | 2018 - 2020, Undergraduate Student Research Award | 2019 & 2020

TECHNICAL SKILLS

Programming Languages	Frameworks	Software	Operating Systems
Python, Java, JavaScript, HTML/CSS, C, C++, Markdown, SQL, R	PyTorch, JUnit, Mockito, Bootstrap	Git, GitHub Actions, Android Studio, Visual Studio Code, PyCharm	Windows XP/Vista/7/8/10/11, Linux, Android

WORK EXPERIENCE

DeFi Data Analyst/Researcher | University of Manitoba

May 2022 - Present

- Analyzing and processing Ethereum blockchain temporal transaction graphs to model historical market sentiment
- Implementing Python and R scripts for efficient querying and statistical computation, handling large SQL databases with over 45 million transactions
- Optimizing a depth-based graph core decomposition algorithm, achieving a 7-10x performance improvement
- Developing a novel methodology for scalable anomaly detection in temporal snapshot transaction graphs, successfully identifying 9 out of 11 investors responsible for the Terra Luna collapse, as recognized by Nansen.io
- Collaborating with two distinguished computer science professors to co-author a research paper, currently pending acceptance for presentation at The 17th ACM International Conference on Web Search and Data Mining

Operations Manager | Pembina Village Restaurant

November 2014 - June 2018

- Increased profit margins by an average of 6% annually through optimizing employee schedules and implementing precise product valuation techniques, resulting in increased order volume and reduced overhead costs
- Established and maintained open communication channels with government regulatory agencies to uphold 100% compliance with building and safety codes
- Enforced quality standards and recipe consistency to reduce customer taste complaints by 26% in the first year
- Configured POS systems and resolved software errors to align seamlessly with menu specials and promotions
- Engaged in regular meetings with food wholesale representatives to evaluate the quality and cost-effectiveness of competitor goods, ensuring the best value for our customers without compromising quality

PROJECTS

Tech Titans Music Management System | Software Engineering 1

May 2023 - August 2023

- Led a team of 4 to collaboratively develop an A+ quality, fully functional 3-layer Android application, encompassing a refined Android presentation layer, a robust Java logic layer, and an HSQLDB persistence layer
- Applied the Agile methodology, adhering to SOLID principles and industry-standard software design patterns
- Conducted rigorous user acceptance reviews and implemented automated testing via JUnit and Mockito frameworks to achieve >80% code coverage, ensuring both the visual and functional excellence of the application
- Launched a professional project website (<https://techtitans-uofm.github.io/posts/Music-Management-System/>), leveraging GitHub Actions and Jekyll for seamless deployment and hosting