

Peter Kuchel

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Education

University of Calgary

- Bachelor of Commerce | Finance September 2016 – June 2023
- Bachelor of Science | Computer Science September 2016 – June 2023

Work Experience

Research Assistant | University of Calgary, Faculty of Finance September 2021 – Present

- Worked under the supervision of Dr. Alfred Lehar at the University of Calgary
- Designed and developed an extensive research database using Julia and PostgreSQL to store Ethereum blockchain data, with over 4 billion+ rows stored across multiple tables.
- Implemented alert systems, mechanisms to employ data integrity checks and correct data inconsistencies, automatic table partitioning, and comprehensive logging functionalities to the above-mentioned research database.
- Conducted data validation and integrity checks by comparing and cross-referencing datasets across two databases to ensure accuracy and reliability
- Developed tools in Python to aggregate unique identifiers of Ethereum protocols by scraping analytic websites using Selenium, and inserted this data to a Postgres Database
- Collected and summarized information on liquidations and auctions for the MakerDAO protocol

Activity Program Facilitator | University of Calgary, English Language Program June 2019 – Present

- Streamlined processes in the program's budget with Excel by linking cells and separating line items, resulting in efficient entry and visual clarity for both users and managers
- Developed programs in VBA and TypeScript to automate repetitive tasks resulting in time saved for users
- Assisted with organizing key program events, including trips to Banff and Jasper for international students to learn English and participate in cultural exchange
- Guide excursions for groups of 40-250 students alongside other program facilitators

Business Development Student | ivy Systems Inc. August 2020 – April 2021

- Co-executed marketing campaigns on Instagram and Reddit for the company's mobile app, which helped grow 2 new Instagram accounts to roughly 450 followers each
- Co-guided a team of 5 volunteers to develop marketing material and strategies
- Developed tools with Python to scrape data from Instagram and specific university websites to push onto the app
- Inspected features of the company's mobile app and caught 5+ bugs that affected user experience and usability
- Analyzed user feedback to suggest 3 design improvements to the development team

Volunteer Experience

Data Science Volunteer | University of Calgary October 2020 – January 2021

- Built a script to collect over 35 thousand historical Tweets using Twitter's API in Python under a restriction of 250 requests for a Sociology Graduate students Master's Thesis
- Setup and optimized Python scripts analyzing family member presence during hospital visits for an Epidemiologist Graduate students Master's Thesis

President | Zeta Psi Fraternity January 2019 – December 2019

- Led a team of 15 active members to manage the chapter and its operations
- Resolved 2 investigative probations

Interests

Bouldering, Reading, Hiking, Finance, French, Physical fitness, Low level programming