

Yengin Loay

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EDUCATION

University of Manitoba

Bachelor of Science Major Computer Science
Bachelor of Science Major Biological Sciences

May 2023
Graduated

PROFESSIONAL EXPERIENCE

Software Developer | Cabela's

May 2023 - Present

Designed and optimized data integration processes | Python, Pytest, SQL Server, Airflow, Docker, Firebase, React

- Spearheaded redesign of marketing department's data pipelines, while maintaining current processes, emphasizing scalability, documentation and best practices in dimensional modeling to ensure accuracy and reliability. Achieved an exceptional 99% success rate of all pipelines and upwards of 50% reduction in runtime resulting in improved data quality, streamlined analytics and BI reporting
- Migrated Access databases and VBA scripts to SQL Server and Python for future-proofing data management
- Extracted and integrated data from RESTful APIs (SAP, DOMO, Google Analytics) to data pipelines for analysis
- Communicated with multiple teams (analysts, business intelligence, category specialists) to understand data requirements to meet their analytical and evolving business needs
- Developed a web application using FERN stack to manage employee coffee orders and inventory. Initiated the project to support growth of coffee club from 3 to 15 members, fostering an inclusive office culture

HCI Research Assistant | University of Manitoba – Dept. of Computer Science

May 2022 - May 2023

Conducted research on older adults, closer others, and technology | R (*Tidyverse*, *Shiny*), JavaScript

- Designed an [online survey](#) about caregivers who do online banking with or on behalf of older adult clients
- Prototyped behavioural nudges - interface elements designed to nudge caregivers towards financial propriety
- Presented a research poster at the Centre on Aging's 40th Annual Spring Research Symposium
- Conducted data analysis and developed a R-based Shiny [web app](#) to view interactive data visualisations

Data Production Officer | Statistics Canada

Jun 2022 - Dec 2022

Retrieved and manipulated large scale data sets using statistical software | SAS, Python, R (*Tidyverse*), SQL

- Produced custom statistical tabulations for ad-hoc client requests and users, data dissemination with QA/QC
- Conducted mixed methods analysis of return to onsite survey for a report to senior management
- Automated report data verification process with an R script eliminating thousands of hours of manual effort

Aquatic Biologist | Fisheries & Oceans Canada - Freshwater Institute

Sep 2011 - Apr 2017

Conducted research in aquaculture science and benthic ecology | R

- Contributed to data collection, analysis, and authoring of research papers and technical reports
- For 2 years, trained and mentored students and junior staff in environmental sample collection and processing

PROJECTS

Firestore UI Web | HTML, CSS, JavaScript, TypeScript

- Designed in collaboration Google Developer Relations engineers, a prototype for FirestoreUI - Web library v9
- Used TypeScript to implement tree-shakable classes and the latest Firestore SDK syntax to enhance modularity resulting in significantly reduced bundle size and improve overall performance

NibblePad - Java, Android, HSQLDB, Junit, Espresso

- Designed and built an Android app using Java and Hyper SQL DB following Agile development practices
- Implemented notification feature to prompt users to explore new restaurants and foods
- Applied software design patterns, wrote unit and integration tests, with 3 layer architecture

Neutreeko - JavaScript

- Designed and created a JavaScript-based interactive 2-player board game that challenges players to slide 3 pieces for a connection in a row before the opponent
- Implemented an AI opponent using a custom algorithm to provide a single-player experience

TECHNICAL SKILLS

Programming Languages: Java, Python, C/C++, C#, HTML, CSS, JavaScript, TypeScript, R, Kotlin, SAS, SQL

Technologies: Git, Firebase, React.js, Node.js, Express, Linux/Unix, Jekyll, Swagger, SQL Server, Docker, Airflow