

# Yengin Loay

yengin.loay@gmail.com | 204-250-5406 | Winnipeg, MB, Canada | [LinkedIn](#) | [GitHub](#)

## EDUCATION

---

### University of Manitoba

B.Sc. Computer Science

May 2023

- CodePath Certificate: Mobile Android Development
- University of Helsinki: Full stack Open (2022)

B.Sc. Biological Sciences

May 2013

## PROFESSIONAL EXPERIENCE

---

### Software Developer | Cabela's

May 2023 – Present

Designed and optimized data integration process | Python, SQL Server, Airflow, Docker, Firebase, Express, React

- Spearheaded redesign of organization's data pipelines while maintaining current processes, emphasizing scalability, documentation and best practices in dimensional modeling to ensure accuracy and reliability from data sources to consumption by Power BI resulting in improved data quality, streamlined analytics and reporting
- Migrated data and scripts from outdated technologies (Access/VBA) to a modern tech stack
- Extracted and integrated data from third party APIs (SAP, DOMO, Google Analytics) to data pipelines for analysis
- Collaborated with multiple teams (analysts, business intelligence, category specialists) to understand data requirements to meet their analytical and evolving business needs
- Led the development of a web application using FERN stack to manage employee coffee orders and inventory. Initiated the project to support growth of coffee club and foster intra-office collaboration

### 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 40<sup>th</sup> 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
- Mixed methods analysis of return to onsite employee satisfaction survey
- 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

- Organized data using statistical and computing software for publications and reports
- Disseminated scientific concepts, findings, and technical information to a variety of stakeholders

## PROJECTS

---

### Firestore UI Web - HTML, CSS, JavaScript, TypeScript

- Supervised by Google Developer Relations engineer to build a prototype of a new FirestoreUI – Web library using TypeScript with tree-shakable classes and the latest Firestore SDK syntax
- Scoped out a new design for FirestoreUI v9 upgrading modularity to reduce bundle size

### NibblePad - Java, Android, HSQLDB, Junit, Espresso

- Built a culinary experience diary Android app to store, view and share the user's experiences
- Implemented notification feature to remind users to try new random restaurant or food
- Wrote unit, integration, and acceptance/end-end tests with 80+% coverage

### Neutreeko - JavaScript

- Created an interactive 2-player board game where players slide 3 pieces to connect in a row
- Developed an algorithm to add an AI opponent for a human player

## TECHNICAL SKILLS

---

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

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