

Byungkook Jung

byungkookjung0725@gmail.com | Edmonton, AB | <https://www.linkedin.com/in/byungkook-jung-617662263/>
github.com/Byungkookjung | 780-399-8285

EDUCATION

Linden Christian School | Graduated with Honours

- Graduated with Honours
- Completed Coursework: Introduction to Python I & II

University of Alberta | Bachelor of Science in Computing Science

- Maple Leaf First Year Excellence Scholarship
- International Student Scholarship
- **Relevant Coursework:** Foundations of Computation, Practical Programming Methodology, File and Database Management, Software Engineering, Formal Systems and Logic in Computing Science, Algorithms, Game Artificial Intelligence, Statistics, Linear Algebra

Winnipeg, MB Canada

Graduated June 2021

Edmonton, AB Canada

Expected to Graduate December 2025

PROJECTS

Web Application Development | NatHacks 2024

JavaScript, R, Html, CSS

Edmonton, AB Canada

November 2024

- Built an interactive web application for NatHacks 2024 that visualized an R-based model predicting stress and headache probability using real-time graphs and API-driven, responsive UI; monitored KPIs (prediction accuracy, user engagement) to guide performance and scalability improvements
- Developed the frontend and integrated it with the R backend via APIs to display user-specific predictions in real time; implemented Firebase-based input handling and long-term storage (LTSS) to archive historical prediction data for analysis and refinement

Lottery System | Android Application Development

Java, Android Studio, Firebase

Edmonton, AB Canada

September 2024- December 2024

- Developed a collaborative Android event management app featuring a lottery system, QR-code scanning for secure entry, and a Real-Time Notification System (RNTS) for instant results and event updates; monitored KPIs (participation rate, response latency) to guide performance and scalability improvements
- Implemented RNTS workflows, Firebase real-time syncing and long-term audit storage (participation data, winner logs, scan history), and core application logic (lottery algorithm, QR integration, event tracking)

Social Distribution | Distributed Social Networking Platform

Python, Django, REST APIs, PostgreSQL, Heroku

Edmonton, AB Canada

September 2025- December 2025

- Developed a federated social networking platform implementing ActivityPub-style communication, supporting posts, comments, likes, and comment-likes across multiple remote nodes; ensured real-time content propagation via authenticated inbox/outbox workflow
- Implemented distributed interaction features including remote follow requests, cross-node comment and like synchronization, and inbox-based event dispatching; monitored federation reliability using server logs and HTTP status codes to debug delivery, authentication, and payload validation issues

WORK EXPERIENCE

Part Time Food Service Associate

Gangnam Street Food

Edmonton, AB Canada

June 2021 – April 2022

- Analyzed sales trends and customer preferences to develop effective upselling strategies and drive informed decision making.
- Collaborated with team members during peak periods, fostering clear communication and resolving conflicts to ensure smooth operations and enhance team performance.

Data Analyst (Volunteer) – Civic Data Visualization

Glocal

Edmonton, AB Canada

September 2025 – Present

- Analyzed Statistics Canada residential property ownership data in Excel to compare single- and multi-property ownership patterns and associated income levels across Canadian regions.
- Cleaned and restructured complex government datasets and created clear comparative visualizations to support public-facing civic data reporting

SKILLS

Languages

Python, C, C#, Java, JavaScript, SwiftUI

Technologies

HTML5, CSS, React, XML, JSON, KPI Tracking, RNTS, REST APIs, HTTP

Databases

Firebase (Realtime & Firestore), MongoDB, PostgreSQL, SQLite, LTSS

Version Control

Git, GitHub

Coordination

MS Office, Google Workspace, Slack, Zoom, Airtable, Email