

# Byungkook Jung

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## EDUCATION

**Linden Christian School** | Graduated with Honours

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- Completed Coursework: Introduction to Python I & II

**Winnipeg, MB Canada**

Graduated June 2021

**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

**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**

**Technologies**

**Databases**

**Version Control**

**Coordination**

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

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

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

Git, GitHub

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