

Jonathan Ong

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EDUCATION

Sep 2016 – Dec 2021 **BSc Major in Computing Science, University of Alberta**
Edmonton, AB • Minor in Psychology (SC)

EXPERIENCE

Sep 2022 – Present **Trans-Northern Pipelines Inc., Programmer Analyst**
Richmond Hill, ON • Revised (template, refactor, document) all **250+ VB.NET** scripts in **ACE Code** that will be used in the new **SCADA (OASyS)** software for monitoring pipeline data in central Alberta and in the Ontario-Quebec corridor
• Cleaned up code in both real-time production and test databases in **ADE**
• Developed automated **C#** scripts to generate reports by retrieving specific data using **SQL** and outputting to a CSV file (i.e., connecting to **AD**)
• Created a desktop **.NET Framework** application where users can input certain conditions and click a button to generate these automated reports

Jan 2021 – Apr 2021 **Mechanical Turk, Full-Stack Developer / Project Manager**
Edmonton, AB • Collaborated with other talented engineers to create a new system framework using **Django** for conducting / managing experiments (human intelligence tasks), specifically around behavioral game theory
• Developed servers / lobbies optimized for up to **200** users to play (scalable) normal and extensive form games simultaneously live
• Structured our back-end **PostgreSQL** database while synchronously integrating it with **Amazon Mechanical Turk API** to reduce traffic / load times by **15%**
• Designed a user-friendly interface using **HTML / CSS** that allowed users to manage tasks with ease, improving overall time / efficiency

PROJECTS

Jan 2021 **Googly Word Game** 📄
• Created a web application using **React / Node.js**, targeted for ESL learners to build upon a strong English foundation, functioning similarly to Tap Tap
• Designed an innovative, engaging game that involves clicking / typing with over **300+** various words with automated sound pronunciations

Sep 2019 – Dec 2019 **InfiniMood** 📄
• Built a mobile mood tracking application using **Android Studio / Java** that functions similarly to Twitter, while utilizing **Firebase** to manage / store new and existing data
• Implemented a real-time live-tracking map system with **Google API** for all users to interact with simultaneously, comparable to Snap Map from Snapchat

SKILLS

Technical	Languages	Databases / Cloud	Tools
• UI / UX Design	• JavaScript / TypeScript	• PostgreSQL	• Android Studio
• Product Management	• HTML / CSS	• MSSQL	• Visual Studio
	• C# / C / C++	• AWS	• Visual Studio Code
	• Python	• Firebase	• XCode
Frameworks	• Java	• Cybera	• Git
• Django / Django REST	• Visual Basic .NET	• ADE	• ACE Code
• React.js / Node.js	• SQL	• AD	• SCADA (OASyS)
• .NET Framework			