

# ALEXANDER CHAO

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## EDUCATION

**University of Calgary** • *Calgary, AB*

Sept 2017 – May 2023

- Bachelor of Science Majoring in Computer Science.
- Undergraduate Coursework: Human Robot Interaction, Operating Systems, Databases, Algorithms, Web-Based Systems, Intro to Software Engineering, Human-Computer Interaction I & II, Calculus II.

## Languages and Technologies

- JavaScript, React.js, Next.js, SASS, TypeScript, Node.js, C#, C, C++, Bootstrap, DAX, Python, Java
- Visual Studio, Eclipse, Git, PowerBi, Power Query, Google Analytics, Google Tag Manager, Looker Studio, AWS Secret Manager, AWS Lambda, AWS CloudFormation, AWS Gateway, AWS RDS, AWS DynamoDB

## EMPLOYMENT

**Nutrien** • *Co-op, IT Digital Delivery*

Jan – Dec 2022

### KPI SharePoint Site

- Developed a KPI SharePoint site application to track usage metrics for both developer and client applications, allowing Product Owners and Directors to use the usage metrics for meetings.
- Programmed [Google Analytics](#) tagging in [TypeScript React](#) for both developer and client applications to capture usage data for the KPI SharePoint site.
- Assembled visual reports using [PowerBi](#) to display [Google Analytics](#) data to track applications performance.

### Customer and Sales Application

- Kick started and presented two completed proofs of concepts for the feasibility and roadmap planning regarding [Google Analytics 4](#) upgrade and [Google Tag Manager](#) integration.
- Programmed on front-end enhancements ticket in [TypeScript React](#) within a scrum agile sprint team.

## Projects

**The Emoji Button** • [github.com/AlexanderChao14/Memory-Test-JS](https://github.com/AlexanderChao14/Memory-Test-JS)

2021

- Developed a fun memory game that utilizes Emojis moving across the screen using [HTML5](#), [CSS](#), and [JavaScript](#).

**Maze To Unlock** • [github.com/AlexanderChao14/MazeUnlock](https://github.com/AlexanderChao14/MazeUnlock)

2021

- Designed an alternative way of unlocking a smart phone utilizing [JavaScript](#), [Python](#), and [machine learning](#) to recognize head movements to unlock the phone.

**Sling Shot To Unlock** • [github.com/AlexanderChao14/SlingShotToUnlock](https://github.com/AlexanderChao14/SlingShotToUnlock)

2021

- Devised a novel to unlock your phone utilizing a slingshot and [React.js](#).

**OurSpace** • <https://github.com/AlexanderChao14/Proximity-Chat>

2021

- Conceptualized a new way of simulating chatting in a physical room through an online chat room in [React.js](#).

**Battleship Game** • [github.com/AlexanderChao14/SENG-513](https://github.com/AlexanderChao14/SENG-513)

2020

- Reconstructed the classic game of Battleship using [React.js](#) and [AWS Lambda](#), enabling online multiplayer battle.

**Animal Rescue Website** • [github.com/AlexanderChao14/AnimalShelterDatabase](https://github.com/AlexanderChao14/AnimalShelterDatabase)

2019

- Engineered a web-based interface for managing an Animal Rescue shelter, with a [PHP](#) front-end and [SQL](#) backend for efficient data management.

## TECHNICAL ADDITIONAL EXPERIENCE

- **Calgary Hacks 2021:** Created a Zoom meeting auto launcher within 24 hours remotely to allow students to upload their course schedule and auto launch the meetings from the schedule using [Java](#) and [Python](#).
- **Calgary Hacks 2020:** Designed a video recommendation application for university students, related to their classes, within 24 hours using [HTML5](#), [CSS](#), [Python](#), and [Flask](#).
- **Taekwondo 2013 - 2017:** Assisted in coaching taekwondo to children with a wide range of skills levels.
- **EquaLearn 2016 - 2017:** Taught one-on-one tutoring to primary school students from low-income families.