

ALEXANDER CHAO

alexander-chao.vercel.app • linkedin.com/in/AlexanderChao14 • chaoalexander45@gmail.com • 403-700-6631

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, Power BI, Power Query, Google Analytics, Google Tag Manager, Looker Studio, CircleCI, Vercel, AWS Lambda, AWS CloudFormation, AWS Secret Manager, 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 [Power BI](#) to display [Google Analytics](#) data to track applications performance, providing easily accessible visual reports for Product Owners and Directors to quickly use in meetings.

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

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

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

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

2020

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

Animal Rescue Website • 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.