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, Power BI, 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 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.