

# CLARENCE ADRIAN

## FULL STACK DEVELOPER / ELECTRICAL ENGINEER

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clarence-adrian

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## SKILLS

### Web/Mobile Development

(React, Vue, React Native, Electron),  
Typescript, Chaizzz

### API Design and Development

Node, Express, GraphQL  
MongoDB, PostgreSQL, RedisDB

Amazon Web Services (Lambda,  
DynamoDB, S3, Cognito),  
Google Cloud Platform (Firebase,  
BigQuery)

Git, Bash, Docker, TravisCI  
Notion, JIRA, ZenHub

C, Python

Photoshop, Illustrator,  
Unity3D, SOLIDWORKS

## EDUCATION

### University of British Columbia

Bachelor of Applied Science  
Electrical Engineering  
2017 - present

## AFFILIATIONS

### Mobile Developer

CodeTheChange Foundation

### Developer

UBC Biztech Club



## PROFESSIONAL EXPERIENCE

### Fullstack Javascript Developer Co-op

SemiosBIO, January 2020 - present

- Drove the initiative to introduce full-stack dynamic support for active/inactive sensors and devices by refactoring and implementing new SQL table designs (Postgres, DynamoDB), REST API endpoints (Node, Aglio, Chai), and a frontend dashboard. The feature significantly streamlined the process of introducing new IoT devices and configurations used across all applications
- Wrote, deploy, and maintain AWS lambdas to support logging and validating over 400M daily logs from agriculture field devices
- Reduced technical debt backlog on Customer and Internal Web Applications by fixing numerous bugs and refactoring code smells
- Debugged and modified existing components in the Customer Web Application to support increased responsiveness and improved mobile/tablet viewing
- Participate actively in scrum meetings, working closely with project managers to plan bi-weekly sprint tickets (JIRA) to meet seasonal client demands and needs



## TECHNICAL PROJECTS

### WHAT'S THE MOVE? Event WebApp

ONLINKERS (Personal Project Team), Lead Developer

- Led and managed a team of 5 developers, utilizing Agile Scrum Methodology to maintain a realistic timeline and preserve team morale by conducting monthly milestone meetings, progress meetings, and delegating issues/tasks throughout weekly sprints
- Kick-started the development of a dynamic web application with React, developing desired features and custom components
- Kick-started the development of a monolithic REST-ful Express API connected to a NoSQL database. This includes designing database schema, writing blueprints (Aglio, Apiary), endpoint validations, and unit testing using existing frameworks (Dredd, Chai)
- Implemented user authentication and authorization throughout the MERN stack using AWS Cognito, securing application routes and user/event data to only authorized parties
- Set up an automated deployment pipeline (Docker, TravisCI) as well as development environments to allow continuous integration and deployment of application features to AWS and Netlify

### Overdose Prevention Mobile App

Code The Change Foundation (Volunteer), Mobile Developer

- Developed and tested push notifications on a React Native mobile application to allow users to send/receive help requests from each other when within configurable constraints
- Created simple map displays and location services to allow users to share their geographical location and navigate to help requests
- Collaborated with a client and team of 7 developers to plan weekly sprints and development phases to meet the required deadline