Jofred Cayabyab

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Education

University of Calgary

Sep 2017 - May 2022

• Bachelor of Science in Software Engineering

GPA: 3.95/4

Experience

Amazon Software Development Engineer Intern

Jul 2021 - Oct 2021

- Streamlined customer UX by implementing contextual enhancements to Smart Alerts, to be deployed to >3 million users
- Reduced Alexa Guard Alert vacuum-related false positives by up to 90% by implementing an event-driven device status querying system
- Decreased service calls by ~50% by creating caching system for contextual enhancement-related information using DynamoDB
- Created detailed design document, development guide, and workflow diagrams ensuring knowledge transfer for new and existing team members to maintain and build upon project

Replicon Software Developer Intern

Sep 2020 - Jul 2021

- Accelerated automated development environment deployment speed by up to 10x by refactoring deployer service to automatically instantiate ECS tasks as needed
- Improved future development speed by up to 2x on Ember.js repo by refactoring legacy code to follow current best practices
- Increased CI/CD pipeline stability and configuration flexibility by refactoring pipelines from Elastic Beanstalk to ECS Fargate
- Enhanced customer experience and customizability in Polaris application by implementing custom tagging and filtering on human resource requests through React and GraphQL

Code the Change YYC Director of Technology & Project Lead

Nov 2019 - Jun 2021

- Led a team of 5 students to develop a language model for the YWCA to classify critical incident reports
- Achieved >70% test classification accuracy on a language server for intelligent autocompletion and client risk assessment using FastAPI and SK-Learn
- Reduced at-risk client response time by ~200% by implementing NLP-based automated risk assessment and alerting procedure

Encana Student System Analyst

May 2019 - Aug 2019

- Saved 30 hours per month of repetitive data-entry work by automating administrative processes using UiPath and FME
- Eliminated invoice processing error rates by 99% by writing an invoice parsing RPA in UiPath
- Streamlined asset management by creating interactive report generation software with Oracle PL/SQL scripts

Student Organization for Aerospace Research Software Developer

Sep 2018 - May 2019

- Implemented automatic parachute deployment by programming sensors and equipment on STM32 microcontrollers
- Reduced failure rates by 50% by designing a malformed packet recovery system using a byte-stuffing algorithm in C
- Improved testing and debugging workflow of avionics software by developing a ground system signal simulator in Python

Projects

YWCA NLP Report Classifier github.com/Code-the-Change-YYC/YW-NLP-Report-Classifier

Mar 2020 - Jun 2021

- Custom critical incident report completion process with intelligent ML-based autocomplete and automatic risk assessment
- Currently used by the YWCA for internal critical incident reporting and monitoring

VimRace vimrace.com May 2020 – Sep 2020

- Multiplayer browser game built with React and socket.io where users can race against each other in a browser-integrated Vim terminal
- Over 500 unique users since initial deployment

datespot datespot.surge.sh

Nov 2018

- Built a map-based website to recommend nearby date locations and ideas
- Designed a date location recommender algorithm using Google Maps API

Skills

Languages: JavaScript, Python, Java, C++, C, Terraform, SQL, HTML, CSS, VB.NET, MATLAB, Bash, GraphQL

Tools and Technologies: React, Redux, Node.js, Express, MySQL, PostgreSQL, NumPy, Pandas, SK-Learn, Flask, FastAPI, Oracle, socket.io, MongoDB, UiPath, Git, AWS, Ember.js, Apollo GraphQL, Ariadne GraphQL, Terraform, Figma