Jofred Cayabyab

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Education

University of Calgary

Sep 2017 - May 2022

• Bachelor of Science in Software Engineering

GPA: 3.95/4

Relevant Coursework: Data Structures and Algorithms, Principles of Software Development (OOP), Computer Organization (Assembly), Software Architecture and Design Patterns, Operating Systems, Database Design, Software Performance Evaluation

Experience

Amazon Software Development Engineer Intern

July 2021 - Present

- Streamlined customer UX by implementing contextual enhancements to Smart Alerts, to be deployed to >3 million users
- Reduced Alexa Guard Alert device-related false positives by up to 90% by implementing an event-driven device status querying system
- 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 - July 2021

- Increased automated development environment deployment speed by up to 10x by refactoring deployer service to automatically instantiate ECS tasks as needed
- Accelerated 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
- Improved 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 - Present

- 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
- Improved 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 - June 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 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 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

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, GraphQL, Terraform