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

Meta IC3 Software Engineer
Sep 2022 – Nov 2022

- Implemented screen share pausing for internal video calling tool, rolled out to **>60,000 employees**
- Reduced AR-device related debugging time by **30%** by adding fragment dump UI pages to internal logging tool
- Improved user VR loading screen performance by **>200%** by refactoring loading screens to use native driver code

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

Replicon Software Developer Intern
Sep 2020 – Jul 2021

- Accelerated automated deployment speed by up to **10x** by refactoring deployer service to use ad-hoc ECS tasks
- 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%** accuracy on language server for intelligent autocompletion and client risk assessment using FastAPI and SKLearn
- 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