

CALEB JOHN

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EDUCATION

University of Washington

B.S Computer Science and Software Engineering | GPA: 3.86

Sept. 2020 – Expected Jun. 2023

EXPERIENCE

PongoAI

Seattle, WA

Founder

May. 2021 – Present

- Building a NLP tool that turns survey responses into actionable insights
- Building Web Dashboard with React and TailwindCSS to create and manage forms, visualize form feedback, and automate feedback collection
- Developing backend REST API with FastAPI and PostgreSQL
- Building NLP Engine with Pytorch, spaCy and NLTK to segment and perform sentiment analysis on user responses.

Cedar Robotics

Seattle, WA

Founder

Apr. 2018 – May. 2021

- **TechCrunch Disrupt Top Pick**
- **Featured by Built in Seattle Magazine**
- Developed and end to end automation system for indoor dining
- Managed team members, hardware and software development, business finances, and relationships with customers
- Worked with multiple restaurants and a large regional restaurant supplier to test and develop products
- **Indoor Delivery Robot**
 - * Built SVM classifier to analyze IMU data and correct wheel alignment
 - * Utilized Google Coral and Tensorflow Lite on a Raspberry Pi to detect custom marker on floor for localization
 - * Used Flask and later FastAPI to control robot via web control panel
 - * Built object oriented library in python to easily access and integrate IMU, lidar, ultrasonic sensors, and motors
- **Ordering Software**
 - * Developed Kiosk app for automated order taking, service requests, customer feedback and payment processing
 - * Built Full dish and menu management web app, supported multiple menus, images and icons
 - * Built with Flask, Bootstrap, React Native, Firebase, and SquareSDK to process card payments

PROJECTS

Inspection Engine - Client Project [Flask, HTML, CSS, JS, Bootstrap, React Native, Firebase, GCP]

- End to end platform to automate fire safety reporting for Fire Marshals and Fire Safety Inspection Companies
- Built this project for a client, Includes **2 web dashboards** as well as **Android and IOS apps**

AR Copy and Paste - Hackathon Project [FastAPI, Pytorch, React Native, HTML, CSS, JS, TailwindCSS]

- App uses Salient Object Detection in Pytorch to extract objects, and performs OCR with the Tesseract Engine
- Built a backend API to process and save entries for later viewing on another mobile device or web page

RELEVANT SKILLS

Languages: Python, JavaScript, TypeScript, Java, SQL

Backend: FastAPI, Flask

Frontend: React, React-Native, HTML, CSS

ML Frameworks: TensorFlow, Pytorch, Sci-Kit Learn

Databases: PostgreSQL, MongoDB, Firebase

Deployment: Linux, Git, Docker, GCP, AWS, Arduino

AWARDS/HONORS

IEEE N3XT Rising Star

425 Business 30 under 30

President's Award For Educational Achievement