

CALEB JOHN

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EDUCATION

University of Washington

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

Bothell, WA

Sept. 2020 – Jun. 2023 (Exp.)

EXPERIENCE

PongoAI

Founder, Lead Software Engineer

Seattle, WA

May. 2021 – Present

- Building a natural language processing tool that turns survey responses into actionable insights
- Building web dashboard with React and TailwindCSS to create, manage, and visualize forms and automate collection
- Developing backend REST API with FastAPI
- Building NLP Engine with PyTorch, spaCy and NLTK to segment and perform sentiment analysis on responses.

Cedar Robotics

Founder, Lead Engineer

Seattle, WA

Apr. 2018 – May. 2021

- **TechCrunch Disrupt Top Pick**
- **Featured by Built in Seattle Magazine**
- Managed team members, hardware and software development, business finances, and relationships with customers
- Worked with 3 local restaurants and a large regional restaurant supplier to test and develop products
- **Designed and Built Autonomous Indoor Delivery Robot**
- Built proprietary on board localization system with **Computer Vision** using Google Coral and Tensorflow Lite on a Raspberry Pi, at a **cost of 50% less than equivalent systems**
- Implemented Support Vector Machine classifier in Sci-Kit Learn to analyze IMU data and correct wheel alignment
- Built object oriented library in Python to easily access and integrate IMU, LIDAR, ultrasonic sensors, and motors
- **Developed Full Stack Platform** for automated order taking, service requests, and payment processing
- Built full dish and menu management web app, supported multiple menus, images and icons
- Built with Flask, Bootstrap, React Native, Firebase, Stripe API, and SquareSDK to process card payments
- Deployed on Google Cloud Platform with App Engine

PROJECTS

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

- End to end fullstack platform for automating fire safety reporting for fire marshals and fire safety inspection companies
- **Worked with client and other stakeholders** to develop requirements and specifications for project
- Platform includes **2 web dashboards** as well as **Android and IOS apps**
- Automatically tags reports as safe or unsafe based on technician responses
- Eliminates week long process to file a fire safety report
- Allows fire safety companies to track technician and overall company performance

SKILLS

Languages: Python, HTML, CSS, JavaScript, TypeScript, Java, SQL

Frameworks: TensorFlow, PyTorch, Sci-Kit Learn, FastAPI, Flask, React, React-Native

Tools: Linux, Git, Docker, MongoDB, Firebase, GCP, AWS

AWARDS/HONORS

IEEE N3XT Rising Star

425 Business 30 under 30

President's Award For Educational Achievement