

CALEB JOHN

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EDUCATION

University of Washington

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

Sept. 2020 – Jun. 2023 (Exp.)

EXPERIENCE

PongoAI

Seattle, WA

Founder, Lead Software Engineer

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

Seattle, WA

Founder, Lead Engineer

Apr. 2018 – May. 2021

- **TechCrunch Disrupt Top Pick**
- **Featured by Built in Seattle Magazine**
- Developed an end to end automation system for indoor dining
- 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
- **Built and Designed Autonomous Indoor Delivery Robot**
- Implemented **Support Vector Machine classifier in Sci-Kit Learn** to analyze IMU data and correct wheel alignment
- Built Localization system with **Computer Vision** using Google Coral and Tensorflow Lite on a Raspberry Pi, at a **cost of 50% less than equivalent systems**
- 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
- **Developed Full Stack Kiosk App** 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**

SKILLS

Languages/Framework: 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

AWARDS/HONORS

IEEE N3XT Rising Star

425 Business 30 under 30

President's Award For Educational Achievement