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 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   *Apr. 2018 – May. 2021*
- **TechCrunch Disrupt Top Pick**
- **Featured by Built in Seattle Magazine**
- Developed an end to end automation system for indoor dinning
- 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
- **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
- **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 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**

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