

# CALEB JOHN

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## EDUCATION

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### University of Washington

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

*Sept. 2020 – Expected Jun. 2023*

### Central Washington University

*College in High School Running Start Program | GPA: 3.75*

*Sept. 2018 – Jun. 2020*

## EXPERIENCE

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### 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

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### 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]

- Used Salient Object Detection in Pytorch to extract objects, and Tesseract OCR to extract text, and then copy it to a virtual clipboard.

## RELEVANT SKILLS

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**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

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**IEEE N3XT Rising Star**

**425 Business 30 under 30**

**President's Award For Educational Achievement**