

Jesus Salcedo

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WORK EXPERIENCE

Honeycomb Robotics

02/2024-Present

Chief Technology Officer

- **Strategic Leadership:** Develop and implement the company's technological vision and strategy aligned with business goals, and technology-driven business models.
- **Technology Management:** Oversee all aspects of technology development, including infrastructure management, software development, and cybersecurity, ensuring robust and scalable solutions.
- **Overview Application:** Created the Overview application for remote crop health monitoring. Overview allows farmers and agriculture experts to view their fields remotely through the use of satellite imagery. Overview uses the power of satellite imagery to create NDVI crop health images for farmers. On a daily basis, Overview analyzes the incoming images for the day and provides a descriptive analysis of the crop health change since the last image. If the crop health is having a downward trajectory, the users are sent alerts with a google maps link to get directions to the field for further analysis.

The Morning Star Company

01/2018-02/2024

Gradient Co-founder

01/2020-02/2024

- **Co-Founder:** Participated in executive meetings to discuss operations, economic, and expansion strategies; communicated annual goals for feature rollouts, UI and back-end enhancements to stakeholders and the company owner, and conducted year-end reviews.
- **Lead Software Engineer:** Directed the development of the Full Stack Gradient Website, a complex project requiring mastery of multiple programming languages and technologies (React, HTML, CSS, Tailwind CSS, JavaScript, Docker, Kubernetes, Google Cloud Run, Next.js, Leaflet, Chart JS, Big Query). Therefore, achieving a substantial cost saving for Gradient CYS, estimated between \$120,000 and \$150,000.

Software / R&D Engineer

01/2020-01/2024

- **Innovative Software Updates:** Successfully integrated major software enhancements including a comprehensive database storage system, landing page website, automated data input/page initialization, support for multiple crops, and enhanced alerts for field technicians. These improvements directly contributed to doubling the serviced acreage from 11,600 to 26,000, without increasing the software team.
- **Aerial Imaging Web Application:** Led a collaborative project with UC Merced and Morning Star's R&D department, guiding four senior computer science students in developing a web application for creating and viewing NDVI crop health images from satellite imagery, delivering a proof of concept valued at approximately \$30,000.

EDUCATION:

University of California Merced, Merced, California
Bachelor of Science: Computer Science and Engineering
Minor: Management and Business Economics

May 2018

SKILLS:

- Computer Science Languages: Python, HTML, CSS, JavaScript, SQL, Typescript
- Web Dev Skills: React, Next.js, Google Cloud, Kubernetes, Docker, Wordpress
- Backend: Fast API, SQLAlchemy, PostgreSQL
- Cloud: AWS Services (S3, Cloudfront, EC2, RDS, IAM)
- Others: Geographical Information Systems, Remote Sensing Technologies

Publications:

- Yara Podcast (Visualizing Success: How Imagery is Helping Farmers Improve Yields and Profits):
<https://open.spotify.com/episode/7nnYx26C6aTTRj1hdy66Yu?si=0aa3768ea7de4ded>

Websites Developed:

Gradient Service Landing Page Website

- <https://gradientservice.com/>

Gradient Software Platform Application

- <https://gradient-software.com>

Overview Remote Sensing Application

- <https://overview.honeycombrobotics.net/>

Personal Portfolio

- <https://jsalcedo-dev.com/>