

EMERY SILBERMAN

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WORK EXPERIENCE

Software Engineer

April 2022 - March 2024

Planted Solar

- Spearheaded development of initial solar array layout frontend with Angular on Google Cloud Platform.
- Solely engineered LiDAR elevation data and slope analysis processing pipeline and backend, solving unique design challenges and providing highly accurate 3D data for project development team.
- Directed drone and ground GIS surveying and data processing, including managing internal team and procuring and managing third-party consultants.
- Led integration of serverless architecture allowing quick scale up of users and streamlining computing by 90%, reducing runtime for service from 3-5 hours to 15 minutes.
- Implemented CI/CD tests to existing architecture.

Principal Software Consultant

November 2020 - April 2022

Deep Root Technology

- Developed multiple publicly available mobile apps for iOS/Android using Flutter with Firebase backend. Projects include H2 Guru, which provides live hydrogen fueling station inventories within the California Fuel Cell Partnership network, and GOES Viewer which provides easy mobile user interface of NOAA satellite imagery.
- Designed an automated system for data collection and processing for soil laboratories using standardized procedures to ensure consistency.
- Consulted with tree nursery on tree tracking software and data, including modernizing system and integration with financial backend.

Chief Technology Officer

May 2017 - November 2020

Bowles Farming Company

- Promoted to Chief Technology Officer from Technology Engineer due to a powerful record of performance and exceptional leadership over technology and data processes for a sustainable, tech-driven row crop farm employing over 50 workers.
- Engineered, implemented, and managed new data collection and reporting methods for partners and internal use, including chemical application data, soil moisture, and other key agricultural metrics. This involved managing 30+ iOS devices for data collection in the field.
- Pioneered data flow process to integrate financial database with automated reporting to optimize finance department efficiency.
- Directed research and implementation of new agricultural technologies to improve workflows efficiencies and business cost-effectiveness.
- Developed a training program for technology infrastructure management, translating technical information for a diverse workforce.

Web Master and IT Consultant

February 2016 - April 2017

Sister of the Valley

- Developed WordPress and WooCommerce powered E-Commerce website drawing in over 1,000 visitors per day.
- Led financial database integration for small business with \$1 million in sales annually.
- Spearheaded operations system for shipping and tracking packages.

SKILLS

Computer Languages

Python, Javascript, Typescript, Dart

Software & Tools

React, Angular, Flutter, SQL, Financial BI, Docker, Data Visualization, Data Analytics, Git

Infrastructure

GCP, AWS, RESTful API Development, Postgres, CI/CD, Serverless, Microservices Architecture

Mapping

Drone Surveying, RTK GPS, Total Station

People

Emotional Intelligence, and People Management

EDUCATION

University of California Merced

B.S. Mechanical Engineering