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## SKILLS

### AI BASED AUTOMATION

### SOFTWARE ENGINEERING

TypeScript (trPC, fp-ts, io-ts)  
Javascript (React, SolidJS, Node)  
GraphQL  
Python

### UI & DATA VISUALIZATION

### INTERACTION DESIGN

### USER RESEARCH

## HOBBIES

COOKING

RECREATIONAL MATHEMATICS

ACCELERATED LEARNING

CLIMBING

SYNTHESIZERS

## VOLUNTEER EXPERIENCE

### E-LEARNING, 03/2023-11/2023

Founded the non-profit SwiftMind Institute an e-learning platform focused on augmenting existing educational opportunities with personalized AGI agents.

### WATER QUALITY STUDY, 03/2013

I traveled to Palawan Philippines to lead a water quality study at one of the world's largest nickel mines. The experience broadened my perspective on social justice and ecology.

## RELEVANT WORK EXPERIENCE

### FOUNDER / CEO

Bean Software

03/2023

- Present

- Created custom trained AGI agents to research business strategy
- Automated business functions such as investor outreach with AI
- Led strategy, product development, fundraising, and prototyping taking our initial product offering from concept to engineering stage
- Completed key pre-launch milestones including market research and iterations on product design

### STAFF FRONTEND ENGINEER

One Finance

03/2022

- 11/2022

- Integrated AI-based automated visual regression testing into CI pipelines to ensure design changes did not introduce breaking changes
- Lead the development of a new web client built with React & Typescript
- Introduced refactors into CI pipelines cutting deployment times by 50%
- Acted as primary point of contact for the web organization
- Created a company wide design system based on Material UI

### SENIOR FRONTEND ENGINEER

Opendoor

10/2020

- 11/2021

- Lead development of features from initial design to completion
- Created rich user experiences with React and GraphQL
- Collaborated with product managers and design in feature planning

### SENIOR FRONTEND ENGINEER

OpenSpace

06/2019

- 02/2020

- Worked directly with the data science team visualizing the output of point computer vision models with Three.js
- Created a caching solution for streaming the output of computer vision models
- Contributed directly to a shared library of 3D visualization tools

### SENIOR ENGINEER

Blue Owl

06/2016

- 02/2019

- Patented a front-end solution supporting AI based uplift modeling
- Created machine learning models to enrich mobile telematics data
- Lead development of UI and data visualization across products
- Mentored coworkers in ES6 development with React
- Developed Extract-Transform-Load (ETL) pipelines for remote sensor data
- Contributed to scoping of projects and architectural planning

### SENIOR UX ENGINEER

Salesforce

01/2016

- 06/2016

- Prototyped the interaction model for the Salesforce IoT Cloud interface.
- Created functional prototypes for use in user experience research.
- Contributed to product design, user research, and development reusable components.