

EXPERIENCE POINTS —

**Director of Engineering ▶ Vidrovr**

February 2024 — September 2025

Automating video analysis to support better decision making. (Acquired by CesiumAstro)

- ▶ Provided guidance for technical and professional growth to all team members.
- ▶ Implemented observability and automated recovery in Kubernetes to reduce mean time to recovery from hours to minutes.
- ▶ Architected a runner for machine learning pipelines in Python using FastAPI, ONNX, and SQLAlchemy to replace Celery-based analysis pipelines.
- ▶ Introduced unit testing, integration testing, type checking, and local environments for feature validation - allowing for more frequent deployments with a reduction in unexpected defects.
- ▶ Improved the operational maturity of the engineering team to match NIST SP 800-171r3 compliance controls, achieving a DoD Authorization to Operate to fulfill USAF contracts.
- ▶ Created a standardized hiring structure and candidate pipeline to build out the software product engineering team.
- ▶ Supported the integration of the Vidrovr platform with CesiumAstro's missions.

**Engineering ▶ HumanFirst**

October 2020 — February 2024

Building software to enable safe, effective, and equitable healthcare operations at home.

(Acquired by ICON)

- ▶ Aligned the engineering team's technical strategy with business goals to deliver products driven by both data and user feedback - from the first lines of code of our public API to delivering features that closed sales.
- ▶ Led the engineering team to SOC2 and HIPAA readiness via creation of disaster recovery plans using infrastructure as code, incident preparedness playbooks, and features to support the principles of least privilege.
- ▶ Developed best practices for both the Typescript backend and React frontend as well as automations to keep the team aligned to those practices.

**Senior Engineering Manager ▶ Venmo**

October 2018 — December 2019

- ▶ Develop cross-functional initiatives migrating Venmo to a distributed architecture.
- ▶ Brought reliability from 90% to 99.999% - from 73 hours to less than 30 seconds of downtime per month.
- ▶ Coordinate DEI recruiting initiatives to improve representation of underrepresented groups in hiring.

**Co-Founder ▶ Forkbombus Labs**

November 2015 — September 2018

Understanding the human element behind threats to manage the risks they pose.

- ▶ Built the Hivemind deception and threat intelligence platform using Node, Kafka, Tensorflow, Postgres, and ElasticSearch to support real-time personalization encouraging intruders to engage so they could be fingerprinted and tracked.

**Senior Engineering Manager ▶ Wayfair**

February 2014 — February 2017

**Software Engineer ▶ Limestone Networks**

April 2012 — February 2014

**Software Architect ▶ Accrisoft**

February 2011 — April 2012

TOOLS I ENJOY —

**Python**

FastAPI, SQLAlchemy, Django,

Twisted, Pandas, Keras,

Tornado, Celery

**Infrastructure**

Linux, Kubernetes, Docker,

Helm, Puppet, Terraform,

Pulumi, AWS

**Javascript**

Typescript, NextJS, Node,

Webpack, Express,

Tensorflow.js, React,

React Native, Expo

**SQL**

MySQL, MariaDB, T-SQL,

PostgreSQL, CockroachDB

**NoSQL**

HBase, MongoDB, DynamoDB,

Redis, ValKey, DynamoDB,

Cassandra

**CSS**

CSS3, SASS, LESS

**Java**

Spring, Hibernate, Dropwizard,

Storm, Spark

**PHP**

Laravel, Symfony

**Cobol**

COBOL-85

**Pascal**

Delphi

**Perl**

Mojolicious, CGI

**C++**

Boost

**C**

C11, C99, CMake, ncurses, Unity