

JOE OLIVER

LEAD DEVELOPER

SUMMARY

I like to mentor high efficiency engineering teams to deliver amazing products, to learn cool things and have a good time.

SKILLS

TECHNICAL PROFICIENCIES: Typescript, Javascript, Python, React, React-Native, VueJS, NodeJS, Express, Flask, PostgreSQL, MongoDB, Docker, Kubernetes, Helm, Github Actions, AWS, GCP

LEADERSHIP PROFICIENCIES: Code Reviews, RFCs / Technical Documentation, Interviews & Hiring, Mentorship & Education, Project Planning, Technical Direction

EMPLOYMENT

TradeUp New York / Remote
Engineering Team Lead Oct. 2021 to Mar. 2022

TradeUp New York / Remote
Senior Software Engineer (First Dec. 2020 to
Engineering Hire) Oct. 2021
ISA-Backed Trade School Financing

Domio New York City
Software Engineer Oct. 2019 to Nov. 2020
Short-term property rental startup

Quibble Netherlands London, UK
Founder Mar. 2018 to June 2019
Smart Geospatial Events Platform

Bizboard Amsterdam, Netherlands
Senior Front-End Apr. 2017 to Dec.
Developer 2017
Digial Development Studio focused on SAAS
businesses

Rehash Studio 131 9th Street, Brooklyn, NY
Fullstack Developer Jan. 2016 to Mar. 2017
Digial Development Studio

EDUCATION

School of Oriental and African Studies Sept. 2012 to June 2015
BA Linguistics 2015

Fullstack Academy Of Code Sept. 2015 to Jan. 2016
Highly selective, three month web
development bootcamp.

CONTACT

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🏠 saferthanhouses

SELECTED PROJECTS

Digital Homesteaders

May 2022 to Current

I took 6 months off to build an offgrid homestead in the hills of upstate NY with my wife, Hannah. This was a period of self-care and reflection after a time of post-covid, post-many-years-at-startups burnout. Building and surrounding ourselves with the kind of life we want helped me to clarify what I want from the next stage of my work life. What I love about software development was building cool things that add real value to people's lives while learning new things and helping others to do the same. These are also the things I love about this weird homestead life. As I restart professional software development I'm excited to see how these two parts of my life can encourage and build upon each other.

TradeUp Web and Mobile Clients

Dec. 2020 to Mar. 2022

As the first engineer I established technology choices and developed many clients either on my own or as the lead engineer. The tech that I decided on for clients was React/ React-Native, with our custom UI-Kit library for theming and React-Query for state management. This was all using the latest version of react including hooks.

TradeUp Mobile Application: A mobile application to allow students to track their application status, submit paystubs and track the repayment status of their loan.

TradeUp Student Application: A web complement to the mobile application.

TradeUp School Portal: A web application to allow schools to track the status of applicants and students in their pipeline and manage repayments.

TradeUp Application V1/2: Main application form for students to apply to the TradeUp program. A comple intake form integrating with async backend processes.

TradeUp School Microsites: Landing pages created for each school to help them advertise to students. Pre-rendered on request using NextJS

TradeUp UI-Kit: Universal React / React-Native component library with adjustable themes.

TradeUp Backend Upgrades

Dec. 2020 to Mar. 2022

RESTful Migration: Migrated and mentored other engineers to migrate the API server to a RESTful paradigm.

Database Upgrades: Advised a migration from Firebase to postgresSQL. Setup AWS infrastructure for different environments and designed and implmented the data schema migration.

Containerization of services: Dockerized the backend services and deployed on ECS. Setup local development using docker compose.

Kubernetes: Migrated both backend and frontend services to be hosted on Kubernetes.

CI/CD: Setup a continuous integration / continuous deployment pipeline using Github actions to test and deploy updates to the clients and backend.

TradeUp Engineering Practices and Culture

Dec. 2020 to Mar. 2022

As the first engineering hire it was important to me to establish best practices and engineering culture, by:

Documentation: I set up an RFC process for engineers to spec and discuss feature implementation and created documentation and processes for other departments to communicate with engineering and request features / projects.

Hiring: I created technical interview questions and criteria for success and ran many interviews.

Product Management: Prompted engineering to move towards an AGILE project management workflow and advised the configuration for sprint lengths, standups, reviews etc.

Developer Education: I Started a series of weekly technical talks for engineers to share knowledge: delivered 1hr talks on docker, kuberentes, web performance optimization and testing best practices.

Domio Opera Migration

Apr. 2020 to Nov. 2020

WHAT: Migrated from a backend monolith to a microservices style architecture running nodejs services on kubernetes.

MY CONTRIBUTION: Architected and lead development of the two main services, including prioritising and managing the work of other developers, ensuring good test coverage and code quality.

TECHNICAL HIGHLIGHT: Architected and lead development of a set of features that allowed guests to make custom requests to which domio employees could respond either by interacting with a slack bot or using a third party app, both of which would trigger emails and push notification while keeping internal and external data in sync.

Domio Tasks App

Oct. 2019 to Jan. 2020

WHAT: Led development of mobile and web apps for maintenance and housekeeping personnel and their managers to track and manage work across the whole Domio property portfolio.