PAUL ASHBOURNE

Bachelor of Software Engineering (BSE), University of Waterloo 2018 (415) 980-9210 | paul.ashbourne@gmail.com https://linkedin.com/in/paulashbourne

3766 21st Street San Francisco, California USA 94114

TOP SKILLS

 Python • Kubernetes Apache Spark

• SQL

• Redis • Node.is • RabbitMQ

• C++

MongoDB

• AWS

ReactJS

• Ansible

Java

• ROS

Go.

• Terraform

• Linux

Bash

• Ruby

Docker

EXPERIENCE

Embark Trucks Inc.

January 2017 - Present San Francisco, California

Head of Infrastructure

Python, Apache Spark, AWS, Kubernetes, Terraform, SQL, Docker, C++, ROS, Ansible, RabbitMQ, ReactJS

- Embark is a startup building autonomous semi trucks
- As a founding team member and later the team lead for infrastructure, I helped the company scale from 4 engineers to 40 and grew my own team from 1 to 6 engineers
- Built and managed infrastructure which supported petabyte-scale data storage, querying, streaming, machine learning, simulation, and analysis
- Architected all of our AWS services and infrastructure from scratch using Terraform
- Wrote all the code that runs on the vehicles to collect data
- Engineered systems which gave live access to the vehicles on the road, including live streaming, telemetry, code deployment and remote troubleshooting
- Built and managed several internal tools and labelling pipelines

Remind. Inc.

April 2016 – August 2016 San Francisco, California

Software Engineering Intern, Social Capital Fellow

Ruby, Go, Node.js, ReactJS, RabbitMQ, Redis

• Re-engineered a message delivery service which delivers over 500 million SMS and email notifications per month

• Built a new framework for assembling, scheduling and processing batch jobs

Wish

Fall 2014, Fall 2015

San Francisco, California

Software Engineering Intern

Python, MongoDB, Hadoop, HTML, CSS, JavaScript, Backbone.js, RabbitMQ, Solr

- Built a system to reduce shipping times by allowing merchants to store products in warehouses around the world
- Redesigned signup and onboarding flow from scratch, increased end-to-end conversion rate by 500%
- Developed a system to automate pre-orders of popular items, increased profit margins from 15% to 30%
- Rewrote internal MongoDB ORM to add support for efficient JOIN-like subqueries over pre-defined relationships

ESCTT, Inc.

July 2013 – April 2014

Toronto, Canada

Software Engineer

Python, PHP, MySQL, JavaScript, HTML/CSS, .NET

• Built a financial analysis application, risk management software, and a health care database

SIDE PROJECTS

- StoreStuff: On-demand self-storage app built for Berkeley's CalHacks 2.0, awarded Microsoft API prize (Node.js)
- Built a compiler for the WLP4 programming language to MIPS assembly (C++, Assembly)
- Password Ninja: A password manager with Chrome Extension (JavaScript, Bootstrap)

EDUCATION

University of Waterloo

September 2013 – June 2018 Waterloo, Canada

Bachelor of Software Engineering (BSE), Honors, 2018 US GPA: 3.9/4