PAUL ASHBOURNE

Bachelor of Software Engineering (BSE), University of Waterloo 2018

(415) 980-9210 | paul.ashbourne@gmail.com

www.github.com/paulashbourne

855 Brannan St. Unit 474
San Francisco, California
USA 94103

SKILLS

- Bash
- Python
- Node.js
- C++

- Java
- Ruby
- Go
- PHP

- ReactJS
- MongoDB
- SQL
- AWS

- ROS
- Docker
- Linux
- AWS

- Redis
- Kubernetes
- RabbitMQ
- Apache Spark

EXPERIENCE

Embark Trucks Inc.   January 2017 – Present

Head of Infrastructure   San Francisco, California

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

- Embark is a startup building autonomous semi trucks
- As the team lead for infrastructure, I helped the company scale from 4 engineers to 35 and scaled 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
- Wrote all the code that runs on the vehicles to collect data
- Built and managed all internal tools and labelling pipelines
- Engineered infrastructure which gave live access to the vehicles on the road, including live streaming, code deployment and remote troubleshooting

Remind, Inc.   April 2016 – August 2016

Software Engineering Intern, Social Capital Fellow   San Francisco, California

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 assemnling, scheduling and processing batch jobs

Wish   Fall 2014, Fall 2015

Software Engineering Intern   San Francisco, California

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 for queries over pre-defined relationships

ESCTT, Inc.   July 2013 – April 2014

Software Engineer   Toronto, Canada

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

- 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

Bachelor of Software Engineering (BSE), Honors, 2018   Waterloo, Canada

85% Overall (US GPA: 3.9/4)