PAUL ASHBOURNE

Bachelor of Software Engineering, University of Waterloo 2018

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855 Brannan St. APT 474
San Francisco, CA
USA 94103

SKILLS

- Python
- Node.js
- C++

- Java
- Ruby
- Go

- PHP
- ReactJS
- JavaScript ES7

- MongoDB
- SQL
- AWS

- ROS
- Docker
- Linux

EXPERIENCE

Embark Trucks Inc.
Software Engineer
Python, C++, ROS, AWS

January 2017 – Present
San Francisco, California

- Embark is a startup building autonomous semi trucks
- Solo infrastructure/devops/tooling engineer for the first year after we launched
- Managed a team of three engineers + ten remote data labelling workers
- 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
- Specced out, built and managed custom PC builds for the vehicles
- Integrated cameras and built custom dynamic exposure algorithms

Remind, Inc.
Software Engineering Intern, Social Capital Fellow
Ruby, Go, Node.js, ReactJS, RabbitMQ, Redis

April 2016 – August 2016
San Francisco, California

- 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
Software Engineering Intern
Python, MongoDB, Hadoop, HTML, CSS, JavaScript, Backbone.js, RabbitMQ, Solr

Fall 2014, Fall 2015
San Francisco, California

- 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.
Software Engineer
PHP, MySQL, .NET, HTML, CSS, JavaScript, Python, SQLAlchemy

July 2013 – April 2014
Toronto, Ontario

- 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
Candidate for Bachelor of Software Engineering
85.4% Cumulative GPA

September 2013 – June 2018 (Expected)
Waterloo, Ontario