Email: hatsmagee@gmail.com

Github: https://github.com/tjacobs/Tom

LinkedIn: https://linkedin.com/in/TomPJacobs

TOM JACOBS

Software developer, working on robots and deep learning.

TECHNICAL SKILLS

Languages: Python, C, C++, Bash, JavaScript, HTML, CSS, Ruby, Objective-C. *Tools:* TensorFlow, Keras, OpenCV, Make, ROS, Raspberry Pi, AWS, Linux, React, Rails.

PROJECTS

Betabot. An autonomous mobile robot built for deep learning research.

https://github.com/tjacobs/betabot

Developed a robot with 3D-printed body, microcontroller, Python, motors, and simulator.

SF Rover. A web controlled telepresence robot.

https://youtube.com/watch?v=FPq7K7XTg3o

• Developed a robot for users to experience San Francisco live from website, using an RC car, servos, video streaming software, and a 3G connection.

First Person View (FPV) racing drones.

https://youtube.com/watch?v=KThrDFqO5wc

Built quadcopter drones from flight controllers, motors, cameras, and video transmitters.

A decentralised P2P file system.

https://arxiv.org/abs/cs/0701190

Developed a decentralised internet storage system.

EXPERIENCE

HomeShare - Cofounder, CTO

https://thehomeshare.com | San Francisco | 2016 - 2016

- Created the company with cofounder, developing a system to match compatible housemates.
- · Hired and ran the engineering team, developing the rails web app and automated web systems.
- Deployed and managed the servers, bots, content, and site deployments.

Kepler Analytics – CTO

https://kepleranalytics.com.au | Melbourne | 2015 - 2016

- Developed the Kepler sensors, which detect smartphones and shoppers in retailers.
- · Deployed the servers, data processing system, and remote sensor upgrade system.
- Developed product features such as heat map trilateration to visualize shopper locations.

Expensify - Senior Software Engineer

https://expensify.com | San Francisco | 2010 - 2014

- Created the mobile apps across four mobile platforms, writing a cross platform mobile app framework.
- · Hired and ran the mobile development team, and grew with the company from four people to thirty.
- Worked on the Android app to get it featured in the Play Store, boosting app downloads by 100,000+.

Red Swoosh - Software Engineer

San Francisco | 2006 - 2008

- Co-wrote the Red Swoosh product, a P2P C++ file distribution client.
- Wrote Red Swoosh's BitTorrent implementation and created the world's first in-browser BitTorrent client.
- Upgraded the deployed P2P app client base of 100,000+ installs.

EDUCATION

Udacity – Self Driving Car Nanodegree Coursera/Stanford University Online – Machine Learning University of Melbourne – Bachelor of Computer Science (Honours)

In Progress May 2017 2002 - 2005

Tutored Operating Systems and Introduction to Programming.