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*   *In Progress*
Coursera/***Stanford University Online*** – *Machine Learning*   *May 2017*
University of Melbourne – *Bachelor of Computer Science (Honours)*   *2002 - 2005*
- Tutored Operating Systems and Introduction to Programming.