TOM JACOBS

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Software developer, startup founder, now working on robots and deep learning.

SKILLS

- Languages: Python, C, Bash, JavaScript, MySQL, HTML, CSS, PHP, Objective-C, Node, C++.
- Systems: TensorFlow, Keras, ROS, Raspberry Pi, AWS, Ubuntu, React, Rails, jQuery, Git.

PROJECTS

- Betabot, an autonomous robot. https://github.com/tjacobs/betabot
  - Currently building a mobile robot with 3D printed body, Raspberry Pi, Python, and TensorFlow.
  - Using a drone controller, PID loops from IMU, direct drive motors, and magnetic wheel angle encoders.
- SF Rover, a web controlled telepresence car robot. https://www.youtube.com/watch?v=FPq7K7XTg3o
  - A project I put together to allow web users to walk around San Francisco from anywhere in the world.
  - Build using an RC car, servos, a netbook, an Arduino, a video streaming platform, and a 3G connection.
- Building first person view racing drones. https://www.youtube.com/watch?v=KThrDFqO5wc
  - Putting racing drones together from frame, controller, motors, receiver, camera, transmitter, and battery.
- Writing on TechCrunch. https://techcrunch.com/contributor/tom-jacobs

EXPERIENCE

Cofounder, CTO, HomeShare *San Francisco, 2016* **https://thehomeshare.com**
- Created the company with cofounder, matching compatible housemates together to live in shared apartments.
- Hired and ran the engineering team of three, developing the rails web app and automated web systems.
- Set up and managed the servers, domains, posts, content, and deployments.

CTO, Kepler Analytics *Melbourne, 2015 – 2016* **https://kepleranalytics.com.au**
- Created the Kepler sensor devices, which detect shopper smartphones, and ran the engineering team of two.
- Set up and managed the servers, data upload processing system, and remote sensor upgrade system.
- Developed product features such as heat map trilateration software to visualize shopper locations.

CEO, Tappily *Melbourne, 2015*
- Founded Tappily, developing mobile apps; wrote the iPhone apps, bringing two client apps to the App Store.

CEO, Jacobs Direct *Melbourne, 2014 – 2015*
- Founded Jacobs Direct, an online store for electronics, processing $50k+ in revenue, 100+ phones and tablets.

Senior Software Engineer, Expensify *San Francisco, 2010 – 2014* **https://www.expensify.com**
- Created the mobile apps across four mobile platforms, writing a cross platform mobile app framework.
- Hired and ran the mobile development team of three, and grew with the company from four people to thirty.
- Worked with Google to get the app featured in the Play Store, boosting app downloads by 100,000+.

Software Engineer, Red Swoosh *San Francisco, 2006 - 2008*
- Co-wrote the Red Swoosh product, the 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 *Completing in 2017*
- Self Driving Car Nanodegree

Coursera, Stanford University Online *Completed 2017*
- Machine Learning

University of Melbourne, *2002 - 2005*
- Completed Bachelor of Computer Science (Honours) in 2005.
- Wrote my honours thesis on and created a decentralized P2P file storage system.
- Tutored classes in Operating Systems and Introduction to Programming.