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|  |  | |  |  |  | | --- | --- | --- | |  | TOM JACOBS | **Email:** [hatsmagee@gmail.com](mailto:hatsmagee@gmail.com)  **Github:** <https://github.com/tjacobs/Tom>  **LinkedIn**: <https://linkedin.com/in/TomPJacobs> |   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. |