

# Michael Van Veen

## Current Location

Los Angeles, CA

## Contact Information

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## Experience

**Senior Software Engineer, Glitch.ai** March 2020 - March 2020

I joined the marketing attribution startup Glitch.ai on March 16, 2020.

However, due to COVID-19 the company was forced to shutter operations on March 27, 2020.

- Enabled experimentation for a data science task by leveraging existing continuous integration (CI) infrastructure on top of AWS CodeBuild using terraform.

**Machine Learning Engineer, ZestFinance** Sep 2018 - March 2020

Senior Associate, Data Science Team

- Contributed to model fairness and explainability research and library development (using Python, tensorflow/keras, numba, xgboost, pandas, numpy)
- Contributed to client-facing development efforts
- Streamlined POC client (proof of concept) model development processes and tooling

**Software Engineer, ZestFinance**

July 2017 - Sept 2018

- Developed a prototype knowledge engineering workflow framework starting from early ideation.

The framework captured descriptions of day-to-day modeling activities within Jupyter notebook and RStudio to automate generation of compliance and risk management documentation.

Supported data provenance for predictive models built with machine learning libraries such as `xgboost`, `sklearn` and `tensorflow`.

- Provided development and support for Zest Automated Machine Learning (ZAML) model hosting and model monitoring infrastructure in production enterprise B2B settings.

**Software Engineering Consultant, Self-Employed** Feb 2016 - July 2017

Projects included:

- **Terranodo**, Python software consultant for government GIS contract.
- **Growthbot.io**, Principal engineer. Built out Slack bot SaaS product MVP. Managed design and engineering resources.
- **Fight For the Future**, Full-stack software consultant. Built out a video recording widget for the July 12th “Battle for the Net” day of action around net neutrality.

**Backend Software Engineer, Manifest Commerce** Nov 2014 - Feb 2016

Backend software engineer.

- Co-authored and launched rewrite of Manifest’s advertising platform. Responsibilities included early monitoring, alerting and release man-

agement duties. Project was built on AWS using technologies such as Python, Celery, Flask, SQLAlchemy, PostgreSQL, and RabbitMQ.

- Supported and scaled platform from first test ad to over \$1M revenue / month and majority of client spend.
- Primary technical resource for client importer onboarding. Worked directly with account managers. Trained technical account managers in sufficient Python skills to help maintain internal ETL pipeline.

**Software Engineering Consultant, Self-Employed** Nov 2012 - Nov 2014  
Projects included:

- **Matterport**, Provided web and RESTful API development services (2014)
- **Manifest Commerce**, Client importer consultant (2013-2014)
- **Real Pie Media**, Godofwar.com tech lead. Coordinated cross-team efforts. Contributed to active feature development (2013)
- **Joystick Interactive**, Google Social Voting App backend developer (2012)

**Software Engineer, Getaround** Nov 2010 - Sept 2012,  
Was one of the first engineering hires. Helped develop, maintain and support a 24/7 car rentals platform that enabled users the ability to rent and unlock cars owned by their peers from their phone. Primary author on services for car unlock API and event-based email system.

**Student Intern, Jet Propulsion Laboratory** June 2009 - Sept 2009,  
Developed a set of code rule compliance checkers in Python and C++ under the supervision of Dr. Gerard Holzmann at the Laboratory for Reliable Software (LaRS). Code checkers targeted Mars Science Laboratory (MSL) flight software and enforced rules defined in the NASA/JPL C coding standard.

**Student Intern, Jet Propulsion Laboratory** June 2007 - Sept 2007,  
June 2008 - Aug 2008  
Co-developed a web application which assisted Systems Engineering team in management of command and telemetry dictionaries.

**Co-founder, Zoomr, Inc.** Oct 2005 - June 2007  
Zoomr was a Techcrunch-featured photo sharing application that supported OpenID authentication, mobile upload, geotagging, trackbacks, comments as well as localization in over 20 languages (now defunct).

**Computer Skills**

Languages: Python, SQL, C, C++, PHP, L<sup>A</sup>T<sub>E</sub>X, HTML, CSS, R, Bash  
OS/Platforms Linux, UNIX, Mac OS X, Google App Engine, Amazon AWS, Azure, Heroku  
Software Docker, vim, git, NGINX, Apache Web Server, NGINX, SSHD, GNU

**Education**

**University of California, Davis** 2013  
Bachelors of Science  
Major: Computer Science