

# Shayne Hodge

<http://purplequark.com>

<https://www.linkedin.com/in/schodge> | Public Internet Version (no contact info)

## LINKS & PROJECTS

Personal:// [purplequark.com](http://purplequark.com)

GitHub:// [schodge](https://github.com/schodge)

LinkedIn:// [schodge](https://www.linkedin.com/in/schodge)

Twitter:// [@purplequark](https://twitter.com/purplequark)

O'Reilly Webinar:// [oreil.ly/2hJ4nNz](https://oreil.ly/2hJ4nNz)

3dfx History:// [bit.ly/2q5xnc0](https://bit.ly/2q5xnc0)

## EDUCATION

### SANTA CLARA UNIVERSITY

MBA

2012

### UC BERKELEY (LAW)

JD

2008

### UC DAVIS

MS, ELECTRICAL ENGINEERING

2005

### CSU FRESNO

BS, ELECTRICAL ENGINEERING

Mathematics Minor, 2002

## SKILLS

### PROGRAMMING

MAIN LANGUAGES:

Python • JavaScript • C • R •

Spark • SQL

SECONDARY LANGUAGES:

LaTeX • Scala • Go • Java

### TECHNOLOGIES

DATA SCIENCE & BIG DATA

IoT • Machine Learning •

TensorFlow/Keras • Plot.ly/D3 •

Deep Learning • Statistics •

PostgreSQL • Various Plumbing -

Redis, RabbitMQ, SumoLogic

## SUMMARY / VIRTUAL ELEVATOR PITCH

Engineering Manager (Software / Data Science / Machine Learning) experienced in creating, mentoring, and scaling teams. Cross-disciplinary background (MSEE/JD/MBA) with experience in autonomous cars, IoT, and SaaS.

## EXPERIENCE

### CRUISE AUTOMATION San Francisco, CA

ENGINEERING MANAGER (DS) | MAY 2018 - FEBRUARY 2020

SR. DATA SCIENTIST | OCTOBER 2017 - MAY 2018

- Founding member of the Systems Performance & Validation (SPV) team (7 reports).
- Led projects on risk-scoring; search engines; ride-quality models; event categorization; etc.
- Tech used: Python, Spark, Beam, TensorFlow, Airflow, Plot.ly, Postgres, BigQuery, Docker
- Led efforts on revamping interview questions, writing team coding standards and style guide, code review standards, team documentation on onboarding and infrastructure
- Infrastructure improvements for the department: continuous integration (CircleCI), autodocumentation, automated build and deployment of Python artifacts, reference Docker containers.
- Wrote an exposure testing library, enabling analysts to write SQL and simple Python logic and have an Airflow job generated to run the analysis, set up the required tables, and integrate with client applications with all security and infrastructure issues handled without their intervention.

### SNAPLOGIC San Mateo, CA

SR. DATA SCIENTIST & PRODUCT MANAGER | JULY 2017 - OCT. 2017

DATA SCIENTIST & PRODUCT MANAGER | MARCH 2016 - JUNE 2017

CONSULTANT | FEB - MARCH 2016

- Data Scientist #0, responsible for all internal DS projects and external (product) DS features.
- Acting Big Data PM, for our Spark / Hadoop solutions.
- First major project was turning our non-relational log data into useful insights. Tools employed: SnapLogic, Scala, Python, etc.
- Architected the design of the Integration Assistant, a pipeline building tool based on the above work, which shipped in the Spring 2017 release.
- Lead combined PM, Engineering, and Office of the CTO working group for corporate ML/AI strategy and product features.

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## SKILLS (CONT.)

### TECHNOLOGIES (CONT.)

#### MISC.

Computer & Microprocessor Architecture • WiFi (802.11) • Bluetooth (802.15) • RFID • Computer Vision

### ELECTRICAL ENGINEERING

#### (DIGITAL) SIGNAL PROCESSING / DSP

• Audio & RF DSP work in Matlab & Python • Master's Project: Comparison of DVD-Audio and Super Audio CD

### CONTROL SYSTEMS

• Undergraduate project: Implementing a Sliding Mode Controller for a DC Motor Using Labview • Undergraduate senior project: Comparison of PID, Fuzzy Logic, and Sliding Mode Controller for Systems with Non-Linearities

### JUT, INC. (JUT.IO) San Francisco, CA

CUSTOMER SUCCESS ENGINEER | OCT. 2015 - NOV. 2015

- Last hire at Jut, which closed/massively reorg'd 11 days after I started.

### CISCO SYSTEMS San Jose, CA

LEAD TECHNOLOGIST | AUGUST 2014 - OCTOBER 2015

- Lead Technologist, IoT Technology Practice, Cisco Consulting Services, combining traditional management consulting services with fast prototyping and engineering capability.
- Lead client engagements for our rapid prototyping innovation-as-a-service offering.
- Implemented an embedded, BLE/iBeacon carrier-based system for connecting analog sensors to WiFi infrastructure.

### MAQUET San Jose, CA

CONSULTANT, R&D, ELECTRICAL ENGINEERING | 2013 - AUGUST 2014

- Designed and implemented two generations of novel impedance spectrometry measurement systems; wrote the accompanying real-time control and data analysis & simulation software.
- Implemented new data analysis techniques and wrote supporting software (Matlab, shell) for legacy measurement systems.

### INTEL CORPORATION Santa Clara, CA

STRATEGIC ANALYST - GRADUATE (MBA) INTERN TECHNICAL | MID-TO-LATE 2012

- Mobile operating system (Tizen) product marketing.

### VASQUEZ BENISEK & LINDGREN LLP Lafayette, CA

ASSOCIATE | 2011 - 2012

- Associate, patent litigation.

### SIMPSON THACHER & BARTLETT LLP Palo Alto, CA

ASSOCIATE | 2008 - 2010

- Litigation associate.

## PROFESSIONAL ACTIVITIES & POTPOURRI

- Member, Semiconductor Special Interest Group at the Computer History Museum, specializing in the history of DSP, audio, ML and graphics (GPU) processors.
- Member, IEEE & SFJAZZ. Work with the IEEE Global History Network on gaining historical recognition for Silicon Valley innovations. Co-Proposer, 'Mother of All Demos' and 'Birthplace of Silicon Valley' Milestones.
- Corresponding Member, IEEE History Committee
- Admitted, California Bar and US District Court (Northern California)