

Shayne Hodge

<http://purplequark.com> | Public Internet Resume Version - See <http://www.linkedin.com/in/schodge> (or email schodge at the domain name above)

LINKS & PROJECTS

Personal:// purplequark.com
GitHub:// [schodge](https://github.com/schodge)
LinkedIn:// [schodge](https://www.linkedin.com/in/schodge)
Twitter:// [@purplequark](https://twitter.com/purplequark)
StackOverflow:// [schodge](https://stackoverflow.com/users/1234567/schodge)
O'Reilly Webinar:// oreil.ly/2hJ4nNz
DM Radio Podcast:// bit.ly/2eyb2cE
SnapLogic Blog:// bit.ly/2ilW1w8
3dfx History:// bit.ly/1yYrmKq

EDUCATION

SANTA CLARA UNIVERSITY

MBA
2012

UC BERKELEY (BOALT HALL)

JD
2008

UC DAVIS

MS, ELECTRICAL ENGINEERING
2005

CSU FRESNO

BS, ELECTRICAL ENGINEERING
Mathematics Minor, 2002

SKILLS

PROGRAMMING

MAIN LANGUAGES:

Python (NumPy, flask, PySpark, etc.) • JavaScript (jQuery, d3, node) • C • R • RegEx • Matlab • HTML5 • CSS • Spark • SQL

SECONDARY LANGUAGES:

LaTeX • Scala • Clojure

TECHNOLOGIES

DATA SCIENCE & BIG DATA

IoT • Cloud Computing • Hadoop / Spark • Data Visualization • Machine Learning • Deep Learning • Statistics • Embedded Computing • PostgreSQL • Networking • Various Plumbing - Redis, RabbitMQ, SumoLogic

SUMMARY / VIRTUAL ELEVATOR PITCH

Tech geek with too many degrees specializing in solving problems that don't fit into nice boxes and requiring both business and technical expertise. (Currently wearing data science, product management, and "Misc." hats.) Extensive experience in customer-facing roles. Cross-disciplinary background (MSEE/JD/MBA) with experience in IoT, ML/AI, data science, and SaaS.

EXPERIENCE

SNAPLOGIC | DATA SCIENTIST & PRODUCT MANAGER

Feb - March 2016 (consulting), March 2016 - Current | San Mateo, CA

- Data Scientist #0, responsible for all internal data science projects and external data science features.
- Acting Big Data product manager, for our Spark / Hadoop based solutions.
- First major project was turning our voluminous log data into useful insights. Tools employed: Snaplogic, Scala, Python, and essentially one of everything in the Hadoop stack.
- Architected the design of the Integration Assistant, a pipeline building tool based on the above work, currently shipping in Beta and going live in the Spring 2017 release.
- Leading combined PM, Engineering, and Office of the CTO working group for corporate ML/AI strategy and product features.
- Designated person for all things lacking a designated person, overdue, and/or on fire. (Bonus points for all three).
- Misc: projects around competitive analysis, marketing positioning, roadmap planning, product strategy, and production dogfooding.

JUT, INC. (JUT.IO) | CUSTOMER SUCCESS ENGINEER

October 2015 - November 2015 | San Francisco, CA

- Background: I was the last hire at Jut, which closed/massively reorg'd 11 days after I started. Jut was a streaming analytics SaaS platform using Kafka, Cassandra, and Elasticsearch to federate and query across multiple data sources using our own DSL, Juttle.
- Responsible for on-boarding customers, writing Juttle, working with product management and engineering, and general marketing.

CISCO SYSTEMS | LEAD TECHNOLOGIST

August 2014 - October 2015 | San Jose, CA

- Lead Technologist / Consultant in the IoE Technology Practice, Cisco Consulting Services, combining traditional management consulting services with fast prototyping and engineering capability.
- Leads client engagements for our rapid prototyping innovation-as-a-service offering, including CxO-level presentations.
- Responsible for developing industry and internal-Cisco partnerships, evaluating potential technology, and shaping go-to-market strategy.
- Implemented an embedded, BLE/iBeacon carrier-based system for connecting analog sensors to WiFi infrastructure.

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SKILLS (CONT.)

TECHNOLOGIES (CONT.)

MISC.

Computer & Microprocessor Architecture • WiFi (802.11) • Bluetooth (802.15) • RFID • Computer Vision • Network Security • General Linux (RHEL, Debian, Ubuntu, etc.)

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

ANALOG, DIGITAL & POWER ELECTRONICS

• Experience in building audio to low-frequency RF circuits • Multiple deployments of Arudinos, Raspberry Pis, and similar devices in R&D and prototyping applications

I have a clever proof of the following, but the margin is not big enough to contain it.

$$\forall n \in \mathbb{N} > 2, \exists(a, b, c) \in \mathbb{N} : a^n + b^n = c^n$$

MAQUET | CONSULTANT, R&D, ELECTRICAL ENGINEERING September 2013 - August 2014 | San Jose, CA

- Designed and implemented two generations of novel impedance spectrometry measurement systems, and 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.
- Performed market analysis for a new product – determination of TAM, price sensitivity, competitive positioning, revenue / cashflow, sensitivity of margins / IRR to ASP, COGS, etc.

SGI | MARKETING PROJECT MANAGER (CONTRACT) June 2013 – September 2013 | Fremont, CA

- Marketing Project Manager for the SGI UV 2000 supercomputer. Prepared white papers and other marketing collateral, drove creation of developer portal, and led other marketing projects.
- Focused on applications in Big Data / Knowledge Discovery, Hadoop, machine learning, virtualization, graph databases, HPC, etc.

INTEL CORPORATION | STRATEGIC ANALYST – GRADUATE (MBA) INTERN TECHNICAL Mid-to-Late 2012 | Santa Clara, CA

- Mobile operating system (Tizen) product marketing.
- Performed competitive and market landscape analysis for Tizen, including analysis of international markets.

VASQUEZ BENISEK & LINDGREN LLP | ASSOCIATE Lafayette, CA | 2011 – Mid 2012

- Associate, patent litigation. Technologies: power converters, SaaS, streaming audio, WiFi (802.11), Ethernet/PoE (802.3af), and data analysis and data visualization.
- Extensive written advocacy, including technical analysis of products and patents, memos and briefs.

SIMPSON THACHER & BARTLETT LLP | ASSOCIATE Palo Alto, CA | 2008 - 2010

- Litigation associate, primarily EE/CS-related patent litigation; clients included Cisco, Intel and Microsoft.
- Technologies: WiFi (802.11), Bluetooth (802.15.1), PoE (802.3af), x86 microarchitecture, network security.

PROFESSIONAL ACTIVITIES & POTPOURRI

- Member, Semiconductor Special Interest Group at the Computer History Museum, specializing in the history of DSP, audio, and graphics (GPU) processors. Several oral histories published on the CHM website and/or YouTube.
- Member, IEEE & SFJAZZ. Work with the IEEE Global History Network on gaining historical recognition for Silicon Valley innovations.
- Corresponding Member, IEEE History Committee
- Admitted, California Bar and US District Court (Northern California)
- Not at all proficient, but enthusiastic: guitar, playing of. Recorded music, collector of.