

PROFESSIONAL EXPERIENCE**Enigma Technologies****New York City, NY***Engineering Manager, Envoy**March 2017 - Feb. 2018*

- Grew a client (a.k.a. “forward-deployed”, “Integration”, “field”) engineering team from 2 to 9 (direct reports) under the pressure of rapid B2B sales growth. This was the fastest growing division of the company at the time.
- Juggled several client engagements as the lead engineer while growing the team. Commitments ranged in size from “Pilots”, which lasted no more than 3--6 months, to 3+ year engagements spanning multiple SOWs.
- Typical day: Discuss progress with client stakeholders. Discuss strategy, resourcing, and hiring with internal stakeholders. Stay abreast of new work coming down the pipeline. Mentor new hires. Compromise. Repeat.
- Also typical day: Debugging a cocktail of docker, ansible, python, javascript, go, bash, terraform, vagrant, aws, elasticsearch, redis, postgres, s3, hdfs, oracle, as/400, mssql, rhel7, ubuntu, ssl certificates, vpns, and network proxies.

*Sr. Software Engineer, Data**May 2016 - March 2017*

- Lead engineer on the company’s first enterprise engagement. Deployed Enigma’s platform in four environments and managed six different data migrations from legacy systems.
- As the company’s first enterprise product integration, there was a significant amount of learning and hustle over a short period of time. Learnings from the first 2-3 of these integrations eventually led to the formation of a new forward-deployed engineering team called “Envoy” of which I was a founding member.

TripExpert**New York City, NY***Software Engineer, Mobile**October 2015 - March 2016*

- Built and deployed a cross-platform travel & hotel reviews app for a 3-person startup in six months.
- I taught myself javascript and used angularjs, ionic, cordova, and pouchdb (best hybrid mobile tech at the time).

Hudson River Trading**New York City, NY***Software Engineer, Operations**April 2011 - September 2015*

The “Ops” team is responsible for releasing & monitoring HRT’s staging and production trading environments and develops a suite of internal tools (GUIs, cmdline suite, routine jobs & report generators) to support that purpose.

- My role was a blend of software development and “trade desk” analysis and support. My team had a strong culture of shipping software and not leaving until the job was done (24/7 HFT firms do not have the luxury of waiting).
- I worked primarily in python, perl, bash, and mongodb to create data infrastructure systems and analysis toolkits. I also played a major role in modernizing an aging code base as the company expanded into new markets.
- I rotated between NYC, London, and Singapore to help establish new offices and train new hires.
- Series 7 certified, I gained significant exposure to how electronic markets work: order entry, market data, modern exchanges, commodities, equities, forex, bonds, corporate actions, algorithm development, trade clearing, etc.

EDUCATION

University of North Carolina

Chapel Hill, NC

M.S. Computational Physics

December 2010

- Specialized in numerical methods for solving PDEs.. “Numerical approximations to the Boussinesq equations” (<http://wilsojb.io/thesis.html>).

Hendrix College

Conway, AR

B.A. Physics. Minor in Computer Science

May 2008

- APS Talks: “*Laser Assisted Cancer Immunotherapy: Surface Irradiation*” (2006) and “*Construction and Calibration of a Six Degree of Freedom Thrust Sensor*” (2007)

PROFESSIONAL GROWTH

Graduate, Data Science, General Assembly

May 2016

Certified Developer Exam - Associate Level (#991405575), MongoDB

March 2016

INTERESTS

Being outdoors: skiing, hiking, running, canoeing. Cooking in cast iron skillets. Arduino “IoT” programming. Personal finance. All things data. Always reading.