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# Anthony N. Garvan

## Education

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Columbia University, New York, NY

M.S., Electrical Engineering (2013)

Yale University, New Haven, CT

B.S., (Intensive) Physics (2006)

## Relevant Experience

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**Ad Hoc**, Chicago, IL

**Engineering Lead (2018-present)**

- Leading team of 30+ engineers organized into seven teams (including two subcontractor teams)
- Maintain health and happiness of the team through weekly or biweekly 1:1s, which provide team members an opportunity to vent, celebrate, and escalate
- Enforce cultural norms around attitude and environment through meetings, slack, and policy
- Initiated a quarterly Climate Survey which allows team members to anonymously report their feelings about how they take pride in, are challenged by, and feel included in the work of the team. The survey showed improvements in 15/18 questions over five months.
- Improved relationship with client through proactive communication, including biweekly tech talks and weekly touch-points.
- Help engineers and team leads to think through technical decisions and balance trade-offs
- Keeping staffing levels appropriate and delivery quality high, even as the project underwent several dramatic changes
- Assist with proposals and vision for new work, both within and outside of the contract scope
- Helped identify and mitigate risks to the launch of healthcare.gov Open Enrollment period

**General Services Administration / 18F**, Chicago, IL

**Data Lead (2015-2018)**

- Started & lead data services working group, developed data services business, including meetings with over 50 leaders across the Federal Government
- Initiated & conducted study on data challenges across government, which became the basis of the Data Science Inter-Agency Working Group's report on furthering data initiatives in government.
- Backend engineering for the Federal Election Commission's new legal document search.
- Wrote Checklistomania, a checklist tool for onboarding which rose to #4 spot on hackernews.
- Conceived of and wrote Coffeemate, a slackbot designed to reduce organizational silos by setting coworkers up for informal coffees.
- Managing team of 4-6: conducted biweekly meeting, 1:1s, help set objectives and surface problems to senior management, conduct performance reviews
- Conducting technical assessment of 1M line codebase for a complex social security case management system
- Developed the U.S. Data Federation Framework, a maturity model and playbook for undertaking data collection efforts in complex organizations

**ZS Associates, Evanston, IL**

**Senior Software Engineer (2013-2015)**

- Analyzed text including document clustering, classification, and sentiment analysis
- Architected & wrote the Social Infograph, a real-time analytics platform for exploring large corpora. Includes integration with Stanford CoreNLP, visualizations including highcharts, word clouds, google maps overlays
- Spearheaded business rules engine integration into flagship product: Javelin Alignment Manager

**Independent Consultant**

**(2013-present)**

- Built models to predict the future value of a domain name
- Conducted performance analysis of big data messaging platforms and disseminated results & code to DevOps team.
- Wrote software & helped market an IoT kickstarter project

**Personal Projects**

**(2013-present)**

- Built & launched four SaaS products, including *Peeklink* (a link sharing tool), and *Bosslog* (a note app), which cumulatively have over 50,000 users in 177 countries.
- Blog posts around data science, AI ethics, SQL optimization, and more.

**Index Companies, LLC, Greenwich, CT**

**Chief Technology Officer (2012)**

- Designed and implemented machine learning algorithms for hurricane prediction from 1 TB hadoop-housed satellite data set
- Coordinated technical efforts and direction with remote team
- Presented findings to key players in the insurance industry, including the CEO of Warren Buffet's Gen Re, a leading insurance company

**Lenfest Center for Sustainable Energy, New York, NY**

**Research Assistant (2011-2012)**

- Built tool for calculating high resolution carbon footprints at massive scale, code deployed at Ben & Jerry's and work published in the *Journal of Industrial Ecology*

**Nanosolar, Inc., San Jose, CA**

**Senior Engineer (2007-2010)**

- Led two teams of two in research, design and construction of metrology instrumentation and a pilot production solar cell manufacturing tool. Two patents.

## Relevant Coding Expertise

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**Primary Languages:** Python, Javascript, HTML, SQL

**Other Relevant Technologies:** Numpy, Scipy, Pandas, jQuery, Linux, MVC, Amazon Web Services, Angular 1, React, Django, Flask, Agile Development, Scrum, Progressive Web Applications