# Summary

Through developing software for nuclear reactors, 3d x-ray machines, and OpenTable's SMS messaging system I've learned the value of simplicity and robustness. I believe in leading through earned respect and mutual trust. I enjoy solving problems that don't have solutions.

# Experience

## OpenTable | Senior Software Engineer 2015 - 2016

* Led development of OpenTable’s SMS/email messaging service
* Scaled messaging service 300x to handle millions of transactional messages per month
* Reduced worst case message latency from 10 minutes to 10 seconds

## Tennessee Valley Authority | I&C Engineer 2009 - 2015

* In charge of implementing cyber security controls for various nuclear systems
* Employed Forward Error Correction to allow reliable streaming through a data diode
* Initiated and developed new software to calculate Spent Fuel Pool time-to-boil to meet Fukushima requirements
* Developed nuclear fuels related software in Python and Fortran
* Supported Nuclear Core Monitoring systems across 6 nuclear units

## GE Healthcare | Research Intern 2008

* Researched tomosynthesis in digital mammography.
* Developed image correction process for tomosynthesis image acquisition.
* Created test for determination of lossy compression threshold for tomographic images.

# Education

## Master of Science ECE (Electrical and Computer Engineering) 2008

*Georgia Institute of Technology*, Metz, France | Specialization in Telecommunications, Networks, and Signal Processing

## Master Recherche SIAO (Signals, Images, Acoustics and Optimization) 2008

*Institut National Polytechnique* (INP-ENSEEIHT), Toulouse, France | Specialization in Signal and Image Processing

## Bachelor of Science in Engineering ECE - with Honors 2006

*Mercer University*, Macon, GA| Selected by College of Engineering, “Outstanding Electrical Engineering Student.”

# Skills

A true “Full Stack” Developer, from graphics to hardware.

Front End / UI: Photographer. Typographic enthusiast. Passionate about user experience. I appreciate the simplicity that React.js affords.

Programming: [Python](https://github.com/fotoetienne/shootout/blob/master/2014-08-11/stephen/shootout.py), [Clojure](https://github.com/fotoetienne/steadyhash/blob/master/src/steadyhash/maglev.cljc), [Haskell](https://github.com/fotoetienne/riskattack), [Fortran](https://github.com/fotoetienne/shootout/blob/master/2015-12-01/stephen/wabbits/WABBITS.FOR), [Go](https://github.com/fotoetienne/humot) … Whatever is best suited for the task at hand

Hardware: I built my own induction wah pedal.

# Talks

The Network is Reliable and Other Tall Tales | 2016

<https://youtu.be/dVriGc9pTgY?t=8m11s>

The UNIX Philosophy | 2015

<https://youtu.be/6OKXxQQHTLQ>