# Stephen Spalding

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## 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
- Develop nuclear fuels related software in Python and Fortran
- Support Nuclear Core Monitoring systems across 6 nuclear units

### GE Healthcare | Research Intern                                         2008

- Research with 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, Clojure, Haskell, Fortran, Go ... 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