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## TECH

programming Ruby, Python, JavaScript, Arduino  
frameworks Rails, AngularJS, jQuery, RSpec  
styling HTML5, CSS3, Sass  
tools AWS, Ansible, Git, GitHub, Active Record, MySQL  
process Agile methodology, Scrum

## EXPERIENCE

software engineer **PLOTWATT** // June 2017 - Present

- Refactor legacy Python app into services in Rails and Python
- Design, develop and test new full stack features including Angular front-end, Rails API, and Python data processing
- Write and maintain Ansible playbooks to deploy apps and services to AWS nodes
- Analyze and manipulate data using MySQL and ActiveRecord
- Diagnose and fix bugs reported by internal and external customers
- Document new features, processes, and critical bug fixes for engineering team and internal customers

innovation co-lab **DUKE UNIVERSITY** // Oct 2016 – June 2017

developer / educator

- Led team of student developers to write and update APIs for Duke University web applications, developing technical plans and providing programming mentorship and code reviews
- Developed curriculum and taught introductory web development course series for Duke University students and staff
- Built, implemented, and monitored Internet and connected-hardware devices to collect lab use data to assist in program development

product engineer **THE IRON YARD** // Feb 2016 – Sept 2016

- Architected and rebuilt legacy JavaScript site as a Rails application
- Designed, built, and tested RESTful APIs
- Built new features for internal and consumer-facing products
- Wrote integration tests for existing and new features

regional campus director	<p>THE IRON YARD // Jan 2015 – Oct 2015</p> <ul style="list-style-type: none"> <li>- Provided mentorship to Campus Directors across South Carolina</li> <li>- Coordinated job placement programs with campuses across the state</li> <li>- Partnered with local and national organizations to expand access to kids' programming classes</li> </ul>
campus director	<p>THE IRON YARD // Jan 2014 – Jan 2015</p> <ul style="list-style-type: none"> <li>- Established organization's presence in a new market, including recruiting an Advisory Board of technology companies, establishing hiring partner relationships, and marketing in the community</li> <li>- Managed curriculum development for and coordinated The Iron Yard's first corporate training teaching BenefitFocus employees Backbone</li> <li>- Consulted with Advisory Board members to update programming curriculum to reflect local engineering hiring needs</li> <li>- Managed full-time technical instructors, part-time teaching assistants, and interns, as well as mentored over 100 students through the course and development career searches</li> </ul>
scrum master	<p>SPARC // June 2012 – Feb 2014</p> <ul style="list-style-type: none"> <li>- Facilitated three software development teams delivering timely, quality software in two week cycles, communicating progress, risk, and impediments to multiple stakeholders through regular reports</li> <li>- Coordinated work between multiple distributed development teams and outside stakeholders to manage interdependencies</li> <li>- Assessed, refined, and documented development processes</li> </ul>
scrum master / auto. test engineer	<p>HAWKES LEARNING SYSTEMS // May 2010 – June 2012</p> <ul style="list-style-type: none"> <li>- Led distributed development team through transition to Scrum</li> <li>- Managed international team of programmers to create calculation templates in Excel for use in automated tests</li> <li>- Created and implemented a testing plan enabling the team to test more thoroughly and ship earlier than in previous releases</li> <li>- Created a parser to extract parameters from any question from 13 math instructional software titles covering topics ranging from basic mathematics to calculus and statistics</li> </ul>
cryptographic vulnerability analyst	<p>NATIONAL SECURITY AGENCY // Aug 2006 – June 2007</p> <ul style="list-style-type: none"> <li>- Evaluated the security of commercial and government communications products</li> </ul>

## **EDUCATION**

<i>front end engineering</i>	<i>THE IRON YARD, Charleston, SC // Jan 2015</i>
<i>ms, information science</i>	<i>UNIV OF NORTH CAROLINA, Chapel Hill, NC // May 2010</i>
<i>ba, mathematics</i>	<i>SWARTHMORE COLLEGE, Swarthmore, PA // June 2006</i>
<i>computer science</i>	<i>JOHNS HOPKINS UNIVERSITY, Baltimore, MD //2007</i> <i>Graduate coursework</i>
<i>mathematics and computer science</i>	<i>BUDAPEST SEMESTERS IN MATHEMATICS, Budapest, Hungary // 2005</i> <i>Study Abroad</i>