

# Drew Volz

www.drewvolz.com – drewvolz@icloud.com

Experience	<b>thoughtbot</b>	<b>Software Engineer</b>	<b>October 2018 – Present</b>	
	<ul style="list-style-type: none"><li>▪ Interoperable Swift/Objective-C iOS development across messaging, design system components and analytics for an e-commerce company.</li><li>▪ TypeScript/React web app development for a face-to-face social network startup.</li><li>▪ React web app development for a pet insurance startup.</li><li>▪ Open-source web app development in Elixir/Phoenix/JS for an announcement platform.</li><li>▪ Internal app development on custom tooling for scheduling, finances, and operations dashboards.</li></ul>			
	<b>Lexmark</b>	<b>Software Engineer II</b>	<b>June 2016 – August 2018</b>	
	Technical Rotation Program which consisted of three, eight-month rotations. During my three rotations I worked on firmware flashing, mobile applications, and manufacturing automation.			
	<i>Manufacturing Automation Systems Engineering Team</i> (November 2017 – August 2018) <ul style="list-style-type: none"><li>▪ Developed web-based status screen system.</li><li>▪ Implementation of a websocket-based API.</li></ul> <i>Mobile Applications Team</i> (February 2017 – October 2017) <ul style="list-style-type: none"><li>▪ Developed a mobile app that enabled wireless printer configuration.</li><li>▪ Implementation of wireless out-of-box printer setup in firmware.</li></ul> <i>System BIOS Team</i> (June 2016 – January 2017) <ul style="list-style-type: none"><li>▪ Designed, implemented, and debugged firmware for laser printers.</li><li>▪ Developed a command-line firmware flashing tool.</li><li>▪ Maintained firmware flashing update GUI to Apple AirPrint spec.</li></ul>			
Education		<b>Software Engineer Intern</b>	<b>May 2014 – September 2015</b>	
	<i>Mechanical Engineering Services Team</i> <ul style="list-style-type: none"><li>▪ Developed dashboards for visualizations of large manufacturing datasets.</li><li>▪ Developed custom tools to manage manufacturing lines of toner/photoconductive drums.</li></ul>			
	<b>St. Olaf College</b>		Graduated May 2016	
	<ul style="list-style-type: none"><li>▪ <i>B.A. Computer Science</i></li><li>▪ <i>Undergraduate Coursework:</i><ul style="list-style-type: none"><li>▪ Computational Thinking in R and Python</li><li>▪ Algorithm Analysis and Data Structures</li><li>▪ Software Design and Implementation</li><li>▪ Programming Languages</li></ul></li><li>▪ Independent Research in Software Dev</li><li>▪ Ethical Issues in Software Design</li><li>▪ Mobile Web Graphics/Computing Apps</li><li>▪ Capstone: Tiled-Display Rendering</li></ul>			
	Projects	<i>All About Olaf and CARLS – Mobile Applications</i> <ul style="list-style-type: none"><li>▪ Unofficial iOS and Android mobile apps for St. Olaf and Carleton College.</li><li>▪ Testing, continuous integration with CircleCI and Travis.</li><li>▪ Open Source, published on Apple App Store and Google Play Store.</li></ul>		
<i>Tiled-Based Display Rendering</i> <ul style="list-style-type: none"><li>▪ Designed a coherent display to model large data across many computers.</li><li>▪ Defined a format for uniformly configuring computers to communicate and share data.</li><li>▪ Calculated the limitations of network, software, and hardware used.</li></ul>				
<i>Picasso — Steganographic Text/Image Encryption</i> <ul style="list-style-type: none"><li>▪ Designed a software utility that can translate Portable Pixmap Format (PPM) files to Scheme.</li><li>▪ Developed a method for encoding ASCII values into RGB values inside image pixels.</li></ul>				
Volunteering		<b>Haiti Health Initiative</b> (January 2017 – Present)	<b>Praying Pelican Missions</b> (June 2011)	