

Drew Volz

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Education	St. Olaf College <ul style="list-style-type: none">▪ <i>B.A. Computer Science</i>▪ <i>Undergraduate Coursework:</i><ul style="list-style-type: none">▪ Computational Thinking in R and Python▪ Algorithm Analysis and Data Structures▪ Software Design and Implementation▪ Programming Languages		Graduated May 2016
	<ul style="list-style-type: none">▪ Independent Research in Software Dev▪ Ethical Issues in Software Design▪ Mobile Web Graphics/Computing Apps▪ Capstone: Tiled-Display Rendering		
Employment	thoughtbot	Software Engineer	October 2018 – Present
	React, React Native, Swift, and Objective-C software development for web and mobile applications.		
	Lexmark	Software Engineer II	June 2016 – August 2018
	Technical Rotation Program which consists of three, eight-month rotations. During my three rotations I've worked on firmware flashing, mobile applications, and manufacturing automation. <i>Manufacturing Automation Systems Engineering Team</i> (November 2017 – Present) As a member of the MASE team my responsibilities include: <ul style="list-style-type: none">▪ Developing web-based status screen system to run the manufacturing facility.<ul style="list-style-type: none">▪ Web development in React, PHP, and SQL.▪ Implementing a websocket-based API between client and manufacturing servers. <i>Mobile Applications Team</i> (February 2017 – October 2017) As a member of the Mobile Apps team my responsibilities included: <ul style="list-style-type: none">▪ Developing the Lexmark Mobile Setup Assistant application.<ul style="list-style-type: none">▪ iOS development in Objective-C.▪ Android development in Java.▪ Implementation of wireless out-of-box printer configuration. <i>System BIOS Team</i> (June 2016 – January 2017) As a member of the System BIOS team my responsibilities included: <ul style="list-style-type: none">▪ Designing, implementing, and debugging firmware for laser printers.▪ Implementing a command-line firmware flashing tool.<ul style="list-style-type: none">▪ Firmware development in C and C++.▪ Maintaining firmware flashing update GUI to Apple AirPrint spec.		
Projects	Lexmark	Software Engineer, Intern	May 2014 – September 2015
	<i>Mechanical Engineering Services Team</i> As a member of the MES team my responsibilities included: <ul style="list-style-type: none">▪ Developing web applications for use in process manufacturing.<ul style="list-style-type: none">▪ Web development in PHP, HTML, and SQL.▪ Producing real-time visualizations of large manufacturing datasets.▪ Providing custom tools to manage the manufacturing line.		
	All About Olaf and CARLS – Mobile Apps <ul style="list-style-type: none">▪ Unofficial mobile apps for St. Olaf and Carleton College.▪ iOS and Android development in React Native.▪ Testing, continuous integration with CircleCI and Travis.▪ Open Source, published on Apple App Store and Google Play Store. Tiled-Based Display Rendering <ul style="list-style-type: none">▪ Successfully designed a coherent display to model large data across many computers.▪ Defined a format for uniformly configuring computers to communicate and share data.▪ Calculated the limitations of network, software, and hardware used. Picasso — Steganographic Text/Image Encryption <ul style="list-style-type: none">▪ Designed a software utility that can translate Portable Pixmap Format (PPM) files to Scheme.▪ Developed a method for encoding ASCII values into RGB values inside image pixels. Languages & Technologies: C, C++, Java, Python, JavaScript, Objective-C, PHP, HTML, SQL, R		
Volunteering	Haiti Health Initiative (January 2017, 2018, 2019)		Praying Pelican Missions (June 2011)