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EDUCATION:

University of Wisconsin-Milwaukee, Milwaukee, WI
Ph.D.: Computer Science, January 2018 - Present

University of Wisconsin-Milwaukee, Milwaukee, WI
Master of Science: Computer Science, September 2015 - May 2017
Focusing on Lattice cryptography (post-quantum crypto) and LWE-KEX for master thesis
Thesis title: [Analysis of BCNS and NewHope key-exchange protocols](#)

University of Wisconsin-Milwaukee, Milwaukee, WI
Bachelor of Science: Computer Science, September 2011 - May 2015 (with Honors)
GPA: 3.71

Technical Skills:

- **Languages:** C#, Java, JavaScript, Typescript, Scala, SQL, Prolog, MIPS, Python, Ruby, and SML
- **Front-end:** HTML, CSS, Backbone, Angular, jQuery, Bootstrap, ZURB Foundation, Lodash
- **Back-end:** .NET, Node.js, Express.js, Sinatra, NancyFx, Django, Flask and Java Servlets
- **Database:** SQL, MongoDB, Azure blob and Azure Table Storage
- **Application Software:** Git, Vim, Bash, and LaTeX

EXPERIENCE:

Northwestern Mutual, Milwaukee, WI

Software Engineer, November 2017 - Present

- Working with MongoDB, .NET Core and React/Redux to build a bond investment application
- Utilized and extended C# LINQ Expression tree to create a business rule engine
- Utilized StructureMap library (IoC) to implement a proxy pattern for data-access-layer (DAL)
- Utilized asynchronous python (PyMongo + Motor) to create a mongo database cleanup script
- Utilized Akka.NET and SignalR to create a distributed application
- Created a company-wide .NET Core boilerplate to be used for future applications
- Created a CSV library to import/export complex objects
- Created a C# library to emit simple C# classes and include them in the application all at runtime to create a true data agnostic application
- Created a JWT token management FSM to manage/refresh JWT tokens
- Utilized Azure Event-Hub and Vue.js to create a real-time log monitoring page
- Conducted a company-wide .NET Core / Angular workshop

Brady Corporation, Milwaukee, WI

Software Developer, January 2017 - October 2017

- Worked as part of the digital team, using jQuery, Backbone.js (legacy), Angularjs and Foundation to upgrade existing e-commerce website (BradyID.com) and componentize JavaScript codes
- Created single-page JS app to product search and narrow down categories/subcategories by interacting with elastic search API
- Contributed to making website mobile responsive using CSS, SASS and flex-box
- Converted legacy Backbone.js code to Angularjs
- Introduced Node, Bower and Gulp to build task to manage front-end dependencies
- Worked with C#, Sitecore and .NET Standard for back-end
- Wrote Selenium tests in C# using ChromeDriver and PhantomJS (headless browser)

UW-Milwaukee Department of Computer Science, Milwaukee, WI

Graduate Teaching Assistant, September 2015 - May 2017

TA for CS-315 (Assembly language programming - MIPS). Duties and responsibilities:

- Conduct discussion and lab sessions
- Write and grade questions for programming sections of the exams
- Write and grade weekly programming homework
- Write lecture notes for students and other TAs responsible for this class

Northwestern Mutual, Enterprise Projects Department, Milwaukee, WI

Intern Internet Application Developer, June 2015 - August 2015

OBA Project (Scrum Team)

- Worked mostly with Underscore.js, Backbone.js, and Backbone-forms module for front-end of "outside business activity wizard" web application (OBA wizard), and also Node.js / Express.js for proof of concept work
- Added grunt and bower to build the project's dependencies, Minify JavaScript files and perform package management and versioning
- Converted all of the outside business activity disclosure forms to the relational database format (IBM DB2 and SQLite), in addition to design wizard steps and paths to allow wizard application fetch data and create forms
- Worked briefly with Java EE and WebSphere for back-end (Web-UI and Web Services)

UW-Milwaukee Department of Material Science and Engineering, Milwaukee, WI

Undergraduate Researcher, May 2013 - May 2015

- Worked with Dr. Pradeep Rohatgi (Distinguished Professor) to implement MAGMA and SolidWorks software in order to simulate Solidification of different materials and teach graduate students how to use the software. Utilized knowledge in Computational Geometry and Differential Equations

Swick Technologies, Wauwatosa, WI

IT Specialist, July 2011 - August 2011

- Worked with Active Directory and Microsoft Deployment Services to deploy Windows-7 on High School computers

HONOR & AWARDS:

- FEF / AFS Scholarship, 2014, 2015 and 2017: 3 X \$1000
- Certificate of Merit, 2013. For Outstanding Academic Achievement in Mathematical Science 234: Linear Algebra and Differential Equations
- Dean's list in years of 2011, 2012, 2013, 2014
- Graduating from the College of Engineering and Applied Science with Honors, 2015
- First place in the first round of Northwestern Mutual Fusion Hackathon 2018 out of 120+ teams

Additional Activities:

- Volunteered to develop "Tour of Milwaukee" website (MilwaukeeInternationals.com) to facilitate annual UW-Milwaukee city tour for new international university students

Work Authorization:

- Naturalized U.S. citizen (naturalized in 2015)