ℳ Rich A. Marino | Software Engineer

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New York, NY / Dallas, TX / Fort Lauderdale, FL

Skillset

Passionate, personable software engineer and technologist. Quick learner, problem solver, and thrives in high-stakes environment. Very passionate about making things run as fast and reliably as possible.
Heavy professional user of C, C++, C#. Additional work with Java, PHP, Node.JS, Javascript/HTML, SQL, Redis, Hyper-V, ESX. Specialties in networking, virtualization, and operating systems.

Professional Experience

Microsoft **(May 2015 - Nov 2016)**

Windows Fresh Start (Dec 2015 - Nov 2016)
◦ Designed and built a Windows feature that can quickly clean a PC of all software while keeping drivers and files.(C, C#, C++)
◦ Implemented various graphic user interface (GUI) components. (C#)

Windows Networking (May 2015 - Dec 2015)
◦ Led bug fixes across an enormous codebase (Windows) while in charge of maintaining VPN, Enterprise Wi-Fi, and Ethernet features.
◦ Utilized big data analysis expertise to answer business questions. (SQL, internal technology)
◦ Designed test software for Hyper-V Software Defined Networking Quality of Service. (Hyper-V, TCP/UDP, C/C++)

Microsoft Intern Program (May 2014 - August 2014) - Windows Networking
◦ Developed a Cloud Platform System (Azure Stack) orchestration and management client, utilizing REST/JSON.
◦ Contributed to Windows NDIS source code, wrote the first network driver for Windows 10 (C)

Microsoft Intern Program (May 2013 - August 2013) - Windows Networking
◦ Developed a UDP NAT (Network Address Translator) and Router. (C, C#)

Microsoft Intern Program (May 2012 - August 2012) - Windows Networking
◦ Designed and developed an automated test system for Connected Standby low power mode. (C)

Hackathon Projects

WubLink
◦ Developed backend for an app that allows crowd interaction with a live DJ that authenticates via and audio watermark.

Ultiamte Party Playlist
◦ Web app that analyzed Facebook friends at an event, then created RDIO playlist based on collective interests.

GoToEvent
◦ Web App that allowed sending and tracking of event invitations via E-Mail, SMS, and telephone calls via Twilio.

Independent and University Projects

Hidden DNS Services
◦ Wrote an authoritative DNS server that allowed for both normal lookups and steganographic traffic tunneling and data exfiltration.
◦ Also provides access to the current Drudge Report home page as TXT records.

Performant PHP Web Server
◦ A full, high-performance web server written in PHP.
◦ Also developed a virtual appliance for securely running a Deep Web Site / Tor Hidden Site.

High Performance University CMS and style sheet (2010-2014)
◦ Built a content management system to facilitate user uploaded and designed web pages by untrusted parties.

Near Field File Sharing
◦ Developed software to facilitate quick and easy sharing of files between physically near computers via UDP Multicast or Internet.
◦ Conducted extensive research into platform-agnostic zero-config communication.

Other Experience and Awards

UHACK 2014 - 2nd Place Winner: Ultimate Party Playlist
UHACK 2012 - Best Use of Twilio: GoToEvent
Engineering Advisory Board (University of Miami), Director of Technology (Jan 2011 - May 2014)

Education

University of Miami (Miami, FL)
2010 - 2014, Computer Software Engineering/Computer Science
Awards: Dickinson Scholarship.