

# SEAN PATRICK CARROLL

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<b>SUMMARY</b>	Desires to solve complex problems in emerging technology with a passion for Cybersecurity.	
<b>TECHNICAL SKILLS</b>	Assembly, C, C++, Java, JavaScript, Matlab, MEARN stack, Objective-C, Python, Shell Script	
<b>ENGINEERING EXPERIENCE</b>	<b>GPS SDR Simulator</b>	<b>Summer 2017</b>
	GPS Satellite Simulator on bladeRF, a Software Defined Radio using Altera FPGA. Developed front-end UI in QT5 and wrote back-end code in C. Conducted test on Femtocells and mobile devices.	
	<b>4G-LTE SDR Cell Scanner</b>	<b>Summer 2017</b>
	Implemented TDD/FDD 4G-LTE basestation scanner on bladeRF (JiaoZianjun/LTE-Cell-Scanner). Monitored and tracked LTE cells on located frequencies. Some SIB ASN1 messages were decoded in PDSCH using Matlab scripts.	
	<b>Protocol Stack</b>	<b>Spring 2017</b>
<b>MARKETING EXPERIENCE</b>	Implemented a four-layer reference model (where layer 4 is the top-most application layer and layer 1 is the bottom-most physical layer) for communication between two hosts in C.	
	<b>Litecoin Miner Malware</b>	<b>2013-2018</b>
	Programmed using Delphi 9, miner exploits extra computational power from user's computers. Crypter and stub were designed to thwart detection.	
<b>EMPLOYMENT</b>	<b>VP of Marketing, Management Information System (MIS) Society</b>	<b>2014-2017</b>
	Villanova Business Society of the Year in 2014 and 2015. MIS is designed to give you an IT understanding integrated with management-level business knowledge.	
<b>EDUCATION</b>	<b>Competitive Effectiveness Challenge</b>	<b>Summer 2015</b>
	Worked in group of 5 that pitched a marketing strategy to Wawa, Inc. for their Summer Hoagie Fest Campaign. Extensive market research was conducted over several months. Wawa out-competes Starbucks in coffee Sales in almost all regions their stores are located.	
	<b>Associate Business Development Manager at Veracode</b>	<b>Sept 2019 - Present</b>
	Work on Field accounts with \$3.5 Billion in revenue or above. Work closely with Marketing on their ABM strategy, as well as with field sales account executives.	
	<b>Co-founder, Taag – Instant Contact Sharing for iOS</b>	<b>2016-2018</b>
<b>LEADERSHIP VENTURES</b>	With Taag, personal information sharing is made simple with the touch of a button. When networking face-to-face, users can swap information by Tagging each other.	
	<b>Software Engineering Intern at Harris Corporation</b>	<b>Summer 2017</b>
	Worked in classified department of Electronic Systems Division. Dealt with security testing of wireless systems, including mobile devices, GPS, and 4G-LTE Data Transmission.	
<b>INDEPENDENT RESEARCH</b>	<b>Villanova University, College of Engineering</b>	<b>2014-May 2019</b>
	MS, Cybersecurity, GPA: 3.77 BS, Computer Engineering, Minor in Business, GPA: 3.3	
<b>INDEPENDENT RESEARCH</b>	<b>Founding Father, ΠΚΦ Fraternity, EO Chapter</b>	
	<b>2015-Present</b>	
	Grew fraternity with a group of friends to the largest and most active fraternity on campus. Continually raise over \$10,000 annually for childhood cancer in partnership with B+ Foundation. Known for our involvement in Villanova Special Olympics and days of community service.	
	<i>Accessible via sean.technology</i>	
	<i>Rapid7 insightIDR Research in Review, 2018</i>	
<b>INDEPENDENT RESEARCH</b>	Ethereum Blockchain: Trust Management for Authentication, 2018	
	NotPetya Ransomware: Investigation into its Influence on the Cyber Threat Ecosystem, 2018	
	The Impact of Current Software Vulnerabilities in Large-Scale Networks, 2017	
<b>INDEPENDENT RESEARCH</b>	Secure Software Testing Methodologies: Code Review & Pen-Testing for Risk Remediation, 2017	