Teaching Assistant Teaching Assistant Actively seeking Full-time opportunities in the fields of Telecommunications and Wireless/Computer Networking. Philadelphia, PA To bring my strong sense of dedication, motivation, responsibility and academic qualifications to your esteemed company and build a long-term career while scripting a success story that has no precedence.

Authorized to work in the US for any employer Work Experience Teaching Assistant Drexel University - Philadelphia, PA April 2018 to Present -Teaching Assistant in the Computer Science department for the course 'Computer Programming 2' required for all CS Majors and Minors. -Responsible for teaching during lab hours and holding office hours where students come to learn and/or clear doubts in programming concepts.   -Guide students to write working programs with appropriate constructs when presented with a problem description.   -Help students import and work on python modules and design Object Oriented Programs (OOPs).   -Guide students to develop games using Python and Pygame. Currency Intelligence Intern Crane Payment Innovations - Malvern, PA June 2017 to December 2017   Research work involving Currency and their security features. Developed database of worldwide currency policies.   Worked on different product sensor and detection configurations.   Created a well-structured Currency Intelligence SharePoint site for the R&D team. Wireless Network Engineer Cascademic Solutions Pvt Ltd - Bengaluru, Karnataka August 2015 to July 2016   Project on "Wireless Remote Monitoring System and its Applications". Involved in maximizing performance of Wireless Gateways. Implemented Low power device gateways (LoRaWAN) and IoT Gateways.   Worked on Microsoft Azure IoT hub and Amazon Web Services for cloud connectivity.   Upgraded Remote sensing and Control applications for Industrial IoT solutions. Python Developer - Visiting Student Raman Research Institute - Bengaluru, Karnataka March 2016 to June 2016   Worked in the Astronomy and Astrophysics Department on "Radio Frequency Interference Mitigation".   Researched issues pertaining to Radio Frequency Interference and computed filtering algorithms to mitigate it.   Enhanced problem solving and programming skills in Python on Ubuntu. Education Master of Science in Electrical & Telecommunications Engineering Drexel University - Philadelphia, PA September 2016 to June 2018 Bachelor of Engineering in Electronics and Communication Visvesvaraya Technological

University - Belgaum, Karnataka September 2011 to July 2015 Skills AWK (1 year), BASH (3 years), CSS (1 year), ECLIPSE (4 years), Git (2 years), C (7 years), HTML (9 years), Javascript (1 year), Java (2 years), Python (3 years), Microsoft Office (10+ years), Matlab (5 years), JUnit (1 year), GNU Make (2 years), Wireshark (2 years), Windows (10+ years), Linux (4 years), Ubuntu (2 years), Cisco Packet Tracer (1 year), VOIP (1 year), Cisco Switches and routers (2 years), Vmware (1 year), JIRA (Less than 1 year), DNS (2 years), Dhcp (2 years), TCP/IP (2 years), AWS (1 year), BGP,OSPF,OSI (2 years), SNMP (1 year), Written Communication (7 years), Communications (2 years), SQL (Less than 1 year), LAN (1 year), Wan (1 year), Volatility (Less than 1 year), RF (1 year), Teamwork (7 years), Team Leader (1 year), Microsoft Azure (1 year), Information Technology (7 years), Ethernet (3 years), SDN (3 years), VPN (4 years) Links

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https://drexelscdc-csm.symplicity.com/profiles/karthik.thalambeti Awards Dean's Fellowship 2016-09 Scholarship grant at Drexel University. Certifications/Licenses Cisco Networking Basics Specialization- By Cisco Networking Academy - Cisco Packet tracer simulation, Build and test small data networks. - Protocol analyzer/packet sniffer to examine data packets. - DHCP and DNS with NAT. - Build and secure small home LAN environments with WiFi implementation. - Cisco switches and routers with Cisco CLI commands to test and verify connectivity. Groups IEEE Student Branch (KSIT) July 2013 to July 2015 IEEE @Drexel University September 2017 to Present Additional Information ACADEMIC PROJECTS: ? Queueing analysis of Denial of Service attacks in Computer Networks. - Simulated 2-D embedded Markov chains with a level eliminating algorithm analyzing security metrics of network. ? Collaborative Intelligent Radio Network Design under DARPA guidelines. - Developed a software defined radio agent that will sense and interpret contents of RF spectrum. - Incorporated spectrum coexistence mechanisms with Reinforcement Learning, spectrum sensing, and throughput analysis in presence of multiple radios. Created agent using MATLAB & python(Anaconda). ? Device-to-Device Communications underlaying Cellular Networks. - Simulation of D2D pairs in an urban hexagonal environment with results on access rate and throughput.   ? Remote Monitoring and Billing System for Electric Energy using ARM Processor. -

Developed an automated billing system for electric energy using Light dependent resistors and ARM Cortex M3. - It notifies consumers with the amount and due date using 8051 microcontroller and GSM Sim900A from server. ? Door Bell Assist for Deaf with LPG and Smoke Detectors. - Interfaced sound, LPG and smoke detectors to PIC microcontroller using Embedded C, ZigBee modules. RELEVANT COURSEWORK: Collaborative Intelligent Radio Network Design, Wireless Systems, Principles of Computer Networking, Performance Analysis of Computer Networks, Security Engineering, Network Security, Advanced Programming Techniques.

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