

VIGNESH NANDAKUMAR

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EDUCATION

North Carolina State University, Raleigh, NC
M.S. Computer Science

Aug 2016 - May 2018
GPA: 3.8

SSN College of Engineering
B.E. Computer Science and Engineering, Anna University

May 2016
GPA: 8.2/10

WORK EXPERIENCE

Dell EMC (Research Triangle Park, North Carolina)
Graduate Software Intern, Hybrid Cloud Engineering

May 2017 - Aug 2017

- Scripted Python executables for automating tasks/test cases (using Robot Framework) to enable Continuous Integration (CI) Chain testing for the Enterprise Hybrid Cloud Solution.
- Utilized VMware vRealize Orchestrator (vRO) API and vRealize Automation (vRA) API for automation tasks
- Worked with automating simulation of virtual machines and protection of data (RP4VM) by replicating to remote sites (vCenters) by automating vRO workflows.
- Develop test cases for new user stories and assign priority levels for manual and automated regression testing.

Eltropy Inc.
Software Intern

Dec 2014 - Jan 2015

- Used Rapid Application Development in Grails Framework to develop a social forum using Apache Groovy and established connectivity using PostgreSQL.

TECHNICAL SKILLS

Computer Languages -	Java, C/C++, Python, Javascript, Groovy, SQL, Ruby on Rails
Tools & Technologies -	Git, Eclipse, IntelliJ, VMware vRealize Suite (vRO, vRA), Docker, Ansible, Jenkins
Web Technologies -	HTML, CSS, Javascript, REST API

COURSEWORK

Internet Protocols, Operating Systems, Devops, Design and Analysis of Algorithms, Advanced Data Structures, Foundations of Data Sciences, Object Oriented Design and Development, Database Management Systems

PROJECTS

Networking Projects - Python, Socket Programming, TCP/IP, UDP, FTP :

Developed a peer-to-peer system with centralized index (P2P-CI) using socket programming in Python. Implemented Go-Back-N-ARQ and Selective Repeat ARQ to provide reliable communication using UDP sockets.

Crawlerbot - Python, Docker, Decision Tree, Jupyter Notebook : Deployed a lightweight Machine Learning System in a Docker container, capable of extracting data from HTML/XHTML pages. ID3 algorithm used to generate decision tree to predict attribute values.

Book(a)Room - Ruby on Rails, HTML/CSS, Javascript, Heroku : Developed a Library Room Booking System using Ruby on Rails to enable room reservation for different time slots and locations on campus.

Advanced Data Structures - C : Implemented a balanced binary search tree, a measure tree and a Bloom Filter.

Pensieve - JSP, Tomcat Server, Heroku : Designed an innovative personal blogging website mirroring a diary allowing users to pen down memories and thoughts and store them in a secure manner.