Dinesh Prasanth Moluguwan Krishnamoorthy

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Education

Master of Computer Science, North Carolina State University, USA   Aug 2016 – May 2018
Courses: DevOps - Modern Software Engineering, Automated Learning and Data Analysis, Artificial Intelligence, Computer Vision, Human Computer Interaction, Internet of Things, Operating Systems, Design and Analysis of Algorithms, Database Systems, Computer Networks
CGPA: 3.9/4.0

Bachelor of Technology in Information Technology, Anna University, India   2010 – 2014
CGPA: 9.37/10 (*Rank 1 – "Overall Best Student in Academic Performance"* award of IT department)

Skills

Languages: Java, C, Python, JavaScript, Node JS
Databases: MySQL, Oracle
Certification: Red Hat Certified System Admin (190-013-953)

Tools: Git, Ansible, Jenkins, Gerrit, Travis CI, Maven, Gradle
Frameworks: Spring, Bootstrap, Ajax
Platforms: Android, Containers, Docker

Experience

Software Engineer, Red Hat, Raleigh, USA   July 2018 – Present

- Design and develop tools for Dogtag open-source project, including but not limited to X.509 digital certificates and Public Key Infrastructure (PKI)
- Draft and review design documents for Continuous integration (CI) pipelines and new functionalities in the PKI product
- Involve in bug fixing and backporting of Common Vulnerabilities and Exposures (CVEs) across various Red Hat Certificate System versions
- Build and release Dogtag product on both Fedora and Red Hat Enterprise Linux platforms
- Act as a liaison between Dogtag PKI team and Fedora open source community

Security and Identity Engineering Intern, Red Hat, Raleigh, USA   May 2017 – May 2018

- Developed a CI infrastructure for Dogtag PKI; Reduced overall job time by around 40% by containerizing different tasks on **Travis CI** using **Docker**
- Designed and implemented a bot to review 20+ patches submitted per day to **Gerrithub**; Created a pipeline infrastructure between **Jenkins** and **Travis CI** to ease the patch verification process
- Designed and developed a new **Python** CLI tool to help system administrators renew system certificates for Red Hat Identity Management using **certutil** and **OpenSSL** tools

Software Engineering Analyst, Accenture Services, Chennai, India   Sept 2014 – May 2016

- Increased product delivery for the client by analysing the workflow and addressing issues faced by different teams by being a part of **High-Performance Delivery Platform team**
- Worked on developing a customer portal for a major client in the manufacturing industry with 100,000+ users to manage their products and services using JavaScript, Bootstrap and Java
- Followed distributed **Agile** practices and **Proof of Concept** driven approach throughout the development

Significant Projects

Retina – MLH Hackathon Winner [http://tiny.cc/hacknc18-winner]

- Designed an *Android* app using *TensorFlow* and *Google Vision API* that acts as an eye for the visually impaired
- The app talks-out-loud the objects and obstacles around. Shopping feature identifies only objects that the user wants to purchase. Won *3rd place out of 61 teams* in "Hack NC 2017" hackathon organized by MLH

Dynamic Calendar Android Library [http://tiny.cc/dynamic-calendar]

- Programmed a fully flexible *Android Open Source library* and a sample app to generate customized calendar icon based on the developer's requirement. Artifact is published in Maven Central Repository

Professional Awards

- **Two-time** winner of the ***Red Hat Multiplier "Collaborate"*** award for contributions to the Dogtag PKI team
- Received the ***FY19 Platform Reward*** for contributions made to the Red Hat Enterprise Linux platform