Revanth Pobala

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EMPLOYMENT HISTORY:

University of Texas at Arlington– Arlington, TX; **Graduate Research Assistant** Aug 2014 – May 2017

- Developed an online anonymous instant messaging system (Lilac) which would enhance the privacy of online communication, protects the users from timing analysis, traffic analysis and provides more anonymity against state level adversaries.
- Deployed the platform on AWS, EC2 instances, **Heroku** containers and created a **Docker** image for the platform.
- Project includes working on various frameworks: **Spring, socket io, AWS** and other technical security protocols.
- Supervised and mentored an undergraduate student.

Cerner Corporation – Kansas City; **Academy Software Engineer** Oct 2016 – Feb 2017

- Involved in all phases of the end-to-end implementation project- requirements gathering, analysis and design, development, testing and debugging.
- Used Test Driven Development (TDD) while developing the application.
- Created wireframes, storyboards, user flows, process flows and site maps to effectively communicate interaction and design ideas.

Blackberry Limited– Irving, TX; **Software Development Intern** Jan 2016 – May 2016

- Worked on Accuracy Filter project. The main goal of the project is to reduce the number of False positives(FP) generated by the Static Analysis Tools (SAT) by using Machine learning.
- Extracted features from Codebase, SAT Warnings and structured the data to be given as an input to the Machine Learning models.
- Worked on Microservices Architecture and used Netflix OSS such as **Hystrix, Ribbon** and **Eureka** and **Docker** containerization.
- Collaborated with development support teams to setup a continuous delivery environment with the use of **Docker**

smartData Enterprises, Software Developer, India Aug 2013- Feb 2014

- Design, building and maintain web sites, using **Spring** and **Java** technologies, scripting languages, content creation tools, management tools, and digital media.
- Developing and validating test routines, scheduling to ensure the test cases mimic external interfaces and addressing all browser and device types.

EDUCATION:

The University of Texas at Arlington, TX.
M.S Thesis in Computer Science Engineering, August 2016, GPA: 3.5/4.0 **Thesis Topic**: Lightweight Low-Latency Anonymous Chat

PUBLICATIONS:

1st IEEE Symposium on Privacy Aware Computing.
Lilac [Lightweight Low-Latency Anonymous Chat] – August 2017.

RELEVANT SKILLS:

- Programming Languages – C, Java.
- Scripting Languages – Python, XML, Shell and JavaScript.
- Database – MySQL, MongoDB, Elastic Search, GraphQL.
- Cloud Services – Amazon Web Services, Google App Engine.
- Big Data Processing – Apache Spark, Kafka.
- Web Technologies – HTML, Bootstrap, Material Design, CSS, Nodejs, Spring boot, Spring MVC, Reactjs.
- Tools – Jenkins, Perforce, Github, Gerrit, Crucible, Snort, Metaspoilt, Splunk, Maven, Gradle, Wireshark, Docker, Kubernetes.
- Network Protocols - ARP, TCP/IP, UDP, DHCP, DNS, NAT, HTTP, VLAN, IPv4, IPv6.
- Testing – Junit, Mockito, Powermock, Jasmine, ARC, Postman, Selenium.

RELEVANT PROJECTS:

- **Wiki-Audit System** *(Spring MVC, Hibernate, Bootstrap, Maven)*
  Built an application that will keep track of confluence wiki pages and notifies the user when to update the wiki pages. Use Quartz job scheduler to automate the extraction process.
- **Course -API** *(Spring Boot, Elastic Search, Bootstrap, Gradle, Docker)*
  Developed an REST application using Spring-Boot, that will store the blog posts of the users' and gets the information stored by using elastic search. The application is build using gradle and is containerized in Docker.
- **Million Song Data Set** *(Apache Spark, Python)*
  Prediction of the release year of a song by implementing linear regression model technique on a set of audio features available in the data set.
- **Click-through rate prediction** *(Apache Spark, Python)*
  Implemented CTR prediction pipeline on Criteo labs dataset by using One-Hot encoding, log loss evaluation and reduced feature dimension via feature hashing.
- **Web-Spider** *(ReactJs, NodeJs, MongoDB, Socket.io, Bootstrap)*
  Designed a web spider that scans the Alexa's top 1 Million ranked websites for compromised SSL certificates, XSS, SQL Injection and other potential vulnerabilities.
- **Pinnacle** *(Spring MVC, Hibernate, Bootstrap, AWS RDS, Maven)*
  An e-commerce website built to sell clothing and designer ware.
- **Netflix Movies Microservices** *(SpringBoot, Microservices, Docker, Kubernetes, Netflix OSS [Hystrix, Eureka, Zuul])*
  Developed a microservice based application that will emulate Netflix movies catalogue and recommendation engine. Used.Neflix OSS to develop the project.

AWARDS & HONORS:

- Awarded Graduate Student Scholarship by the Department of Computer Science, UT Arlington. 2014-16.
- Contributor to the National Science Foundation (NSF) supported projects: CNS- 0954133 and 1423163.
- Won a special prize at Major League Hacking Code RED at the University of Houston.