savithakj
savitha-jayasankar

SAVITHA JAYASANKAR

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OBJECTIVE: To obtain a software engineer position to make a recognizable contribution in data-driven fast-paced industry. Interested in Data Analytics, Intelligent System, and Information Security .

EDUCATION

Rochester Institute of Technology, Rochester, NY — **Expected Graduation: Dec 2018**

- Masters in Computer Science Concentration in Security & Intelligent Systems GPA: 3.68/4.0
- Advanced Certificate in Big Data Analytics

Vidya Academy of Science and Technology, Thrissur, India

- Bachelor Of Technology, Computer Science and Computer Engineering. CGPA: 7.5/10 — **July 2014**

LANGUAGES AND TECHNOLOGIES

- Languages: Java, Python, Perl, JavaScript, Ruby
- Databases: Redis, MySQL, PostgreSQL
- Tools: Elastic Search, Logstash, Kibana, Burp Suite, SAS Data Management , Pentaho, Tableau

EXPERIENCE

Graduate Technical Assistant — **Rochester Institute of Technology** — **January 2018 - Current**

- Created and maintained GPU servers and distributed file system for CS department.
- Developed Perl scripts for CS account authentication conversion with Active Directory.
- Assisted in the migration of the authentication server from LDAP to Active Directory (AD).

Application Security Intern — **Indeed.com** — **June 2017-August 2017**

- Created a web app that shows attack prone surfaces of the company using syslogs of Cisco Firepower, F5 Application Security Manager, Palo Alto Networks, TippingPoint IPS which are queried using ElasticSearch implemented using Python Flask, JQuery, Ajax and ELK tools.Deployed in Docker using Gitlab CI.
- Build on design tools for monitoring and investigating network and system events to determine real-time attacks preemptively.
- Created an integration tool for BugCrowd and Atlassian JIRA for synchronization. Build a slack bot for manual sync and notification. Efficient triaging of submissions. Optimized workflow for resolving active security vulnerabilities.
- Performed penetration tests on Indeed's web application to find vulnerabilities.

Software Engineer — **Tata Consultancy Services** — **Sept 2014-April 2016**

Data Migration to Master Data Management (MDM):

- Designed and developed the migrated system using IBM Integration Bus (formerly known as WebSphere Message Broker).
- Implemented cost effective batch processing middleware to migrate and synchronize banking data from Mainframe System and MDM.

COURSE PROJECTS

Analyzing the Attack Landscape of Voice Activated Devices (Ongoing Project) — **Spring 2018, Fall 2018**

Secure E-Commerce Database Application *(Ruby on Rails with Postgres , Python Alembic)* — **Summer 2018**

- Designed secure database application and implemented role-based authentication, event logging, and database hardening process.

Computer Networking Project *(Java, Python, C, Mininet)* — **Fall 2017**

- Packet Analyzer: Implemented packet analyzer which extracts all the header information of a captured packet
- Routing Information Protocol: Implemented Distance Vector Routing Protocol (RIP Ver 2)
- Ping, Traceroute Protocol: Implemented ping and traceroute in Linux using ICMP raw packets
- OpenvSwitch : Performed a study about OpenvSwitch and OpenFlow

Deep Learning on ECG Dataset *(Python, Tensorflow, Keras)* — **Fall 2017**

- Build Deep Convolutional Neural Net model to predict the location of ventricular tachycardia in patients for fast diagnosis for Computational Biomedical Laboratory, RIT
- Obtained accuracy of 56.4% for 12 pacing locations.

Sarcasm Detection in Plain Text Using Deep Learning with TensorFlow*(Python, Tensorflow, Keras)* — **Spring 2017**

- Implemented Sentimental Analysis using efficient feature extraction to detect sarcasm in text. Training and testing the model was done using Tensor flow**.** Conducted comparative study amongst other existing models.

Keystroke Monitoring System Using Image Steganography *(Java , C)* — **Fall 2013**

- Implemented image steganography tool to bind the chosen image and key logger to ensure employee's authenticity.
- Tracked all keyboard strokes of receiver by the sender.

ACHIEVEMENTS AND ACTIVITIES

- Selected and attended Grad Cohort 2018 as part of CRA-W in San Francisco CA — April 2018
- Attended Austin Hackers Anonymous (AHA) monthly meeting — June 2017
- Selected and attended Grad Cohort 2017 as part of CRA-W in Washington DC — April 2017
- Event Coordinator at TCS Fit4life Corporate Challenge – "Run Miles & Bring Smiles". — Feb 2016,Feb 2015