Debopriyo Bhattacharya

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Education

Syracuse University - College of Engineering and Computer Science, Syracuse, NY

May 2020

Master of Science in Computer Science

Major Courses: Design & Analysis of Algorithms; Software Modelling & Analysis; Machine Learning for Security

Heritage Institute of Technology, India

July 2018

Bachelor of Technology in Computer Science and Engineering

Major Courses: Object Oriented Programming; Software Engineering; Data Mining; Web Intelligence & Big Data

Skills

- Programing Languages: Python, Java, C#, C++, SQL
- Operating Systems: Ubuntu, Windows, iOS, Android
- Software and Platforms: Amazon AWS, Visual Studio, Gliffy, Gephi, Jupyter Notebook, Colab

Certifications

•	Linux Administration Bootcamp on Udemy	March 2019
•	AWS Certified Solutions Architect – Associate 2019 on Udemy	March 2019
•	Getting into DevOps on Udemy	March 2019
•	Using Python to Access Web Data by University of Michigan on Coursera	January 2019

Using Python to Access Web Data by University of Michigan on Coursera

Java by HP Educational Services July 2015

Experience

Summer Internship, Health Catalyst, Salt Lake City, Utah

July 2019 ~ August 2019

- Setup an opensource EHR system on azure that can be used to teach and train users
- Generated fake heathcare information of patients to populate the EHR database
- Used Health Catalyst's source mart tool to pull data from the EHR database to SQL Server database
- Created a data profiling tool using C# to run bundles of SQL queries and give report on data quality

January 2019 ~ April 2019 Malware Classification using Windows API calls, Syracuse University, Syracuse, NY

- Executed malware and benign samples on Cuckoo's Sandbox and extracted Windows API call sequence
- Created a feature vector of API function calls, their frequency and malware class using VirusTotal.com API
- Trained a neural network on this data which currently detects malware with 94% accuracy

Remote Package Dependency Analyzer, Syracuse University, Syracuse, NY

August 2018 ~ December 2018

- Created a remote code analysis tool with emphasis on analyzing C# code to detect file dependency
- Implements asynchronous message passing communication using WCF Framework
- GUI interface communicates with backend server to select files, initiate analysis and display results
- Implements Tarjan's algorithm to find strong components based on the dependency analysis

Summer Internship, Stevens Institute of Technology, Hoboken, NJ

June 2017 ~ July 2017

- Studied Convolutional Neural Networks and its applications in computer vision problems
- Created a prediction model in python using tensorflow library to identify scientific names of almost 5000 species
- Explored optimization techniques like data augmentation by modifying images to increase training dataset
- Trained AlexNet and Inception-v3 models on Amazon AWS EC2 instances to compare results, Inception-v3 gave best result with 96.47% accuracy

Leadership & Involvement

Rotaract Club of Heritage Institute of Technology, Director/Member

September 2014 ~ April 2017

- Taught underprivileged children spoken English, grammar, mathematics and computer skills
- Supervised functioning and efficacy of all projects undertaken by the club as the Director for two years

Debate Club of Heritage Institute of Technology, President/Member

September 2014 ~ April 2017

- Represented my College in Asian Parliamentary Debates in different Colleges across the state
- Elected Club President, organized Heritage Parliamentary Debate where more than 25 Colleges participated