Hemendu Roy

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SUMMARY

Computer Science graduate student with 2+ years of experience in software development, object-oriented programming, and microservices deployed in the cloud. I am seeking Summer 2022 internship opportunities.

EDUCATION

Candidate for Master of Science in Computer Science   Expected May 2023
Arizona State University, Tempe, AZ   3.89 GPA
Relevant Courses – Software Security, Mobile Computing, Cloud Computing, Advanced Network Security, Distributed Database Systems

Bachelor of Engineering in Electronics & Communication   2015 – 2019
R.V College of Engineering, Bangalore, India   3.84 GPA
Relevant Courses – Applied Mathematics, Advanced Data Structures, Java, Computer Communication Networks

TECHNICAL SKILLS

Programming Languages: Java, Python, C/C++, Bash, Groovy, MATLAB, Scala
Technologies: Amazon EC2, Azure, Google Cloud, SQS, Kubernetes, Docker, Hadoop, Cassandra, PostgreSQL, Oozie, Kafka, Ansible, Android Studio, Jenkins, Datadog, Grafana, VMWare, KVM, numpy, pandas, scikit-learn, ghidra, wireshark

PROFESSIONAL EXPERIENCE

Laboratory of Security Engineering for Future Computing, Tempe, United States: Cybersecurity Research Assistant
10/2021 - Present
I'm working on integrating Open Source 5G implementations such as free5gmano, free5gc and UERANSIM together and subsequently scanning for security vulnerabilities.

Aruba, a Hewlett Packard Enterprise Company, Bangalore, India: Software Engineer   09/2019 - 05/2021
As a member of the **NetInsight (AI Insights team)**, I was responsible for development, automation and debugging of several aspects of the NetInsight Product.
- Aided in the development of 'Insights' by consuming live telemetry data from Access Points
- Developed scripts for Test Automation, Application Deployment and Offline Data analysis.
- Led operational efforts to migrate AWS Infrastructure from multiple to single Availability Zones to save network costs
- Led operational efforts to migrate Hadoop Clusters from CentOS to Ubuntu
- Recognized with **three "Aruba Recognition Awards"** for outstanding performance

Aruba, a Hewlett Packard Enterprise Company, Bangalore, India: Cloud Engineer Intern   01/2019 - 07/2019
- Implemented a Hadoop NameNode High Availability Architecture to ensure seamless failover of several applications scheduled in YARN and Oozie.

PROJECTS

CoviCheck   Fall 2021
Developed an Android app using Java that lets users measure their heart and respiratory rate using a phone camera and accelerometer and additionally, log information about any Covid-19 symptoms they may be experiencing.

SmartHome Gesture Recognition   Fall 2021
Designed a mobile app that records and sends video footage to a server that employs a CNN model to classify gestures using cosine similarity.

BrainNet   Fall 2021
Demonstrated liveness detection of brain signals and compared performance parameters of several supervised and unsupervised models such as Support Vector Machines, Random Forest and Multi-Layer Perceptron Classifiers

Scalable Facial Recognition System   Spring 2022
Developed a multi-tiered Facial recognition system using Machine Learning and technologies such as Flask, EC2, SQS, S3 and designed a custom auto scaler to handle up to 100 concurrent requests.

Open-source contributions
triangles – A python module that calculates triangle attributes using the Law of cosines and the Law of sines.

EXTRACURRICULAR EXPERIENCE

The Math Company Triathlon Winner (2018): Programming, Business Acumen and Mental Aptitude competition for undergraduate students to compete for a placement opportunity.