ARNAB RAHMAN CHOWDHURY

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POSITIONS OF RESPONSIBILITY

Research Assistant <div align="right">July, 2020 - September, 2020</div>
Aalto University, Espoo, Finland

- Responsible for automated cloud-based exercises grading system for the Cloud Software and System course.

Research Assistant (Thesis worker) <div align="right">January, 2020 - July, 2020</div>
Aalto University, Espoo, Finland

- Title: Distributed Deep Learning Inference in Fog Networks
- Implemented deep neural network partitioning and offloading techniques leveraging fog computing paradigm to alleviate the device level burden of executing heavy neural network computation.

Research Assistant <div align="right">May, 2019 - August, 2019</div>
Aalto University, Espoo, Finland

- Responsible for automated android exercises grading system for the Mobile and Cloud Computing course.
- Migrating from Apache Maven (JUnit) to python (unittest) made it easier for course assignment up-gradation.
- Dockerizing automated testing application isolated each submission of the students and ensured accurate grading.

Lecturer <div align="right">May, 2017 - August, 2018</div>
Green University of Bangladesh, Dhaka, Bangladesh

- Conducted theory and sessional courses (e.g. Basic Programming, Data Structure Laboratory, Compiler Design) as well as examined student's test scripts and assignments.
- Visionary and innovative ideas generated during the supervision of undergrad thesis projects.

Assistant Programmer <div align="right">December, 2016 - April, 2017</div>
Islamic University of Technology, Gazipur, Bangladesh

- IUT-AMS, a Digitalized solution of the financial account management system.
- Designing UI using Primefaces provided different widget facilities that relieved the stress of the accountant.
- Expenses of paper-based reports and unnecessary strain of the employees were reduced by the automated report.

SKILLS AND INTERESTS

Languages	C, C++, Python, Java, C#, Javascript, Unix Shell Programming, NodeJS, Solidity
Frameworks	PyTorch, Laravel, Django, Flask, Android MVP, ASP.NET, Appium
Databases	Oracle, MySQL, Microsoft SQL Server, PostgreSQL, MongoDB
Platforms	Docker, Kubernetes, Firebase, Microsoft Azure, Google Cloud Platform
Tools	Git, Wireshark

EDUCATION

Master of Science in Security and Cloud Computing   September, 2018 - July, 2020
Aalto University, Espoo, Finland
Norwegian University of Science and Technology (NTNU), Trondheim, Norway
CGPA: 4.23/5.00

Bachelor of Science in Computer Science and Engineering   December, 2012 - October, 2016
Islamic University of Technology, Gazipur, Bangladesh
CGPA: 3.85/4.00

PUBLICATIONS

MAES: Modified AES for Recourse Constraint Environments

Conference: IEEE Sensor Application Symposium (SAS), 2018

BlockChain for IoT Security and Management

Conference: The 5th International Conference on Networking, Systems and Security (NSysS), 2018

EXPRESSit: Interactive Messaging via Gestures

Conference: The 19th International Conference on Computer and Information Technology (ICCIT), 2016

ACADEMIC PROJECTS

Scalability of Blockchain
TTM-4502: Communication Technology, Specialization Project (Master's Course)

Smart Contracts in Solidity
TTM-4195: Blockchain Technology and Cryptocurrency (Master's Course)

Barccoin: An alternative cryptocurrency based on Litecoin
Summer School in Blockchain Technologies (Master's Course)

An Interactive Android Chatting Application (ChitChat)
CS-E4100: Mobile Cloud Computing Course Project (Master's Course)

Online games store with secure payment system
CS-E4100: Web Software Development Course Project (Master's Course)

IPSec Based VPN Tunnel Implementation Between The Client Site and The Cloud Service
CS-E4300: Network Security Course Project (Master's Course)

Secured Multi-ride Carosel Ticket On a NFC Memory Card Platform
CS-E4100: Network Security Course Project (Master's Course)

REFERENCE

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