

FAHAD CHOWDHURY

Software Developer

Espoo, Finland

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Citizenship: Bangladesh and Finland

(Date of birth: 31.12.1986)

CURRICULUM VITAE



- *Software developer (Java), network security enthusiast with strong background in communications networking. M.Sc. (Tech.) in Communications Engineering - Networking Technology from Aalto University, Finland. Possess strong knowledge on communications networks, internet protocols, network security and software defined networking.*

WORK EXPERIENCE

10/2017 – 03/2018 ***Software Developer***
Cargotec (Kalmar), *Tampere, Finland*

Developing and testing new software products that enable container terminals to become fully automated. (Keywords: Java, Port automation, Agile)

04/2017 – 06/2017 ***Technical Intern (Bluetooth Positioning technologies)***
Proximi.io, *Helsinki, Finland*

Developed a concept for Bluetooth mesh network with Bluetooth Low Energy beacons, and assisted with customer projects and customer service.

09/2011 – 12/2015 ***Laboratory Assistant***
Networking Technology Laboratory, Aalto University - School of Electrical Engineering, *Espoo, Finland*

Responsible for assisting and supervising the students in performing laboratory experiments such as Network Security, and IPv4 Routing.

06/2012 - 12/2012 ***Research Assistant***
Department of Communications and Networking, Aalto University - School of Electrical Engineering, *Espoo, Finland*

Setup an experimental test-bed and analyzed the security threats in local area networks using the BackTrack Linux tool. Developed a firewall using OpenFlow architecture to enhance network security of local area networks.

- 06/2011 - 08/2011 **Research Assistant**
 Department of Communications and Networking, Aalto University -
 School of Electrical Engineering, *Espoo, Finland*
 The key responsibilities included planning new laboratory works,
 configuration of CISCO routers and switches, documentation and
 preparing laboratory reports.
- 02/2009 - 06/2010 **Junior Engineer**
 Snowy Mountains Engineering Corporation Pty Limited (Australia),
Dhaka Branch, Bangladesh
- The key responsibilities included the preparation of Expression of Interest
 and project proposals related to hydropower and energy, transport, water
 and environment, mining, oil and gas projects.

EDUCATION

- 02/2016 **Aalto University - School of Electrical Engineering,**
 Master of Science (Technology) in *Communications Engineering*,
 Major: Networking Technology
- Key Courses:** Communication networks, Wireless networks, Mobile
 communication systems and services, Routing in communication
 networks, Transmission methods in communication systems, Signaling
 protocols, Security of communication protocols, Introduction to
 performance analysis, Network traffic measurements and analysis,
 Introduction to software engineering.
- 03/2009 **American International University-Bangladesh (AIUB)**
 Bachelor of Science (B.Sc.) in *Electrical and Electronic Engineering*
- Key Courses:** Computer system architecture, Telecommunication
 engineering, Programming language 1 (C), Programming language 2
 (C++), Microprocessor & I/O systems, Statistics and probability,
 Mathematical methods of engineering.

MASTER'S THESIS

Title: Securing Local Area Networks with OpenFlow.
 Supervisor: Prof. Jukka Manner, Instructor: Timo Kiravuo; Aalto University

The chief objective of the thesis work was to develop a firewall to enhance network security in
 local area networks. A python based OpenFlow (software defined networking) controller known
 as POX has been used to design and implement the firewall that examines the incoming packets
 against the preset firewall rules to filter packets and implement security policies.

OTHER COURSES

10/2017	JUnit and Mockito Crash Course, Udemy
07/2017	<i>Complete Java Masterclass</i> , Udemy
06/2017	<i>Intensive Finnish language course for foreigners</i> , Helsingin aikuisopisto
01/2017	<i>CP100A: Google Cloud Platform Fundamental</i> , Organized by Qvik, Helsinki

IT SKILLS

Programming	<i>Proficient:</i> Java, Python, <i>Intermediate:</i> R, C, C++, Matlab
Testing frameworks	JUnit, Mockito
Tools	Git, Apache Maven, Apache Camel, Jira
Operating Systems	MS Windows, Linux
Security tools	BackTrack Linux
Other tools	Android Studio, Wireshark
Devices	Configuration of Cisco and Juniper routers and switches
Adobe tools	Adobe Photoshop, Adobe Premiere

LANGUAGE SKILLS

English: Fluent

Finnish: Intermediate level. Achieved the ‘National certificate of language proficiency (YKI)’ at Intermediate level in January 2017

Bengali: Mother tongue

ACHIEVEMENTS

- Duke of Edinburgh’s award for young people (bronze medal)

HOBBIES

- Photography, travelling and football.

REFERENCES

- **Annina Koskiola**, +358-403533131, Email: annina.koskiola@proximi.io
CEO, Proximi.io, Helsinki, Finland
- **Timo Kiravuo**, +358-947001(Work), Email: timo.kiravuo@aalto.fi
Researcher, Aalto University - School of Electrical engineering;