

CURRICULUM VITAE OF  
**Abu Shohel Ahmed**

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**PROFESSIONAL EXPERIENCE**

September 1, 2010 – Ongoing (contractual)

*Position:* Research Scientist, ER RA SEC

*Work Areas:* Identity management systems, Security analysis of Protocols, and analyzing security in cloud computing environment.

*Achievement:* Semifinalist in Vaxthus Challenge. Idea "Secure online payment using web browser and smartphone".

*Employer:* Oy L M Ericsson Ab, Finland

January 25, 2010 – June 30, 2010

*Position:* MS Thesis Worker

*Topic:* A User-Friendly and Secure OpenID Solution for Smartphone Platforms.

*Work Areas:* Security and Usability analysis of OpenID with GBA integration, OpenID-GBA prototype development for Smartphone.

*Achievement:* Achieved highest (GPA: 5) thesis grade both from Aalto University, Finland and University of Tartu, Estonia.

Work held at ER NomadicLab, Finland

June 01, 09 – August 31, 09

*Position:* Research Assistant

*Job Responsibility:* Idea development for social networking service, research in privacy and authentication for social web service, new service design and development.

*Achievement:* Development of a new social networking application (<http://nsm.sizl.org>) for NordSecMob community.

*Employer:* Helsinki University of Technology, Finland. (In Data communication Software Lab (<http://www.cse.tkk.fi/Datacommunications>))

May 10, 07 – August 18, 08

*Position:* Database Engineer, IT

*Job Responsibility:* Co-ordinate software development life cycle; requirement analysis with stakeholders, map business process into software design, ensure software delivery and customer satisfaction.

*Achievement:* Development and improvement of Grameenphone automated sales tracking and HR time management system (Oracle HRMS).

*Employer:* Grameenphone (A subsidiary of Telenor, Norway [www.grameenphone.com](http://www.grameenphone.com))

**EDUCATION**

February 2011  
- ongoing

Doctoral Student, Aalto University – School of Science  
Area: Security in cloud platforms.

September 2010  
(2008-2010)

NordSecMob – 'Erasmus Mundus MS in Security and Mobile Computing'  
From Aalto University – School of Science and Technology (2008-09)  
Finland and University of Tartu, Estonia (Autumn, 2009)  
Result: CGPA- 4.53/5  
Thesis: "A User-Friendly and Secure OpenID Solution for Smartphone Platforms"

## TECHNICAL SKILLS

### Security

- Depth knowledge in cryptographic protocol (e.g, protocol analysis tools and theory), implementation and verification issues.
- Theoretical and development experience with various Identity management solutions (e.g. OpenID, Oauth, SAML, GBA, GAA).
- Working experience in security and identity management issues of Cloud computing – focusing on OpenStack Cloud.

### Software

- Experience in software development methodologies, Requirement analysis, functional design, Design tools, Software Testing and Prototyping.
- Mobile software development experience in Apple iPhone platform.
- Working knowledge in reverse engineering tools (e.g. IDA-Pro, Ollydbg)

### Programming

- C/C++/Objective-C - various educational assignments, using it for software development for 6 years.
- JAVA, Python – working knowledge, has performed various educational assignments.

## SOFT SKILLS

- Strong entrepreneurial motivation to work with new ideas.
- Passion to work with team to achieve concrete output.
- Fluent in English (TOEFL 103/120) and Bengali; learning Finish language.

## PUBLICATIONS

1. **"SAGLET- Secure Agent Communication Model"** - 11th International Conference on Computer & Information Technology, ISBN: 978-1-4244-2136-7, IEEE Digital Object Identifier: 10.1109/ICCITECHN.2008.4802965
2. **"Evaluation of Popular VoIP services"** - Adaptive Science & Technology, 2009. ICAST 2009. IEEE Digital Object Identifier: 10.1109/ICASTECH.2009.5409745
3. **"Formal Security analysis of OpenID with GBA"** – MobiSec 2011, 3rd International ICST Conference on Security and Privacy in Mobile Information and Communication Systems
4. **"A Model for X.509 Certificate Evaluations"** – Seminar paper – UT, Technical Report, VirutalLife, EU FP7
5. **"Agent Based Distributed Denial of Service Prevention"** - 8<sup>Th</sup> International Conference on Computer & Information Technology, Bangladesh - 2005, page-875.

## AWARDS AND PATENTS

- Erasmus Mundus Scholarship for NordSecMob program 2008-10 ( European Union)
- Dhaka Board scholarship; 2000-2004.
- Provisional Patent Filing: "P33893 Secure online payment using smartphone and web browser"

## REFEREES

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Aalto University, Espoo-02150, Finland.  
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