Md Salman Ahmed

http://people.cs.vt.edu/ahmedms/

Email : ahmedms@vt.edu
Mobile : +1-423-741-6519

EDUCATION

- **Virginia Tech (VT)** — Blacksburg, VA
  PhD Student (3rd Year) in Computer Science, GPA: 3.85 (excluding transferred courses) — Aug 2017 – Present
- **East Tennessee State University (ETSU)** — Johnson City, TN
  Master of Science in Computer Science; GPA: 3.89 — Aug 2015 – Dec 2017
- **Bangladesh University of Engineering & Technology (BUET)** — Dhaka, Bangladesh
  Bachelor of Science in Computer Science and Engineering; GPA: 3.51 — Jan 2008 – Feb 2013

PROFESSIONAL APPOINTMENTS

- **Banc Intranets** — Johnson City, TN
  Software Developer Intern — Summer 2016 and 2017
- **Samsung R&D** — Suwon, South Korea & Dhaka, Bangladesh
  Software and Senior Software Engineer — Mar 2013 - Aug 2015

RESEARCH INTERESTS

Intrusion Detection Systems; Threat Intelligence Analysis; System Security; Program Analysis; Data-driven Security; Security in Connected Vehicle Technology.

AWARDS

- Samsung R&D Icon of the Month Award, Samsung R&D Institute Bangladesh (**2015**)
- IEEEXtreme Programming Contest 10.0 (18th Place in USA) and 9.0 (51st Place in USA)

PUBLICATIONS

Refereed Conference Proceedings

1. [**Under Review**] Methodologies for Quantifying ASLR Security under JIT-ROP.
2. [**SecDev'19**] Exploitation Techniques and Defenses for Data-Oriented Attacks.
3. [**CarSys'17**] Demo: Freeway Merge Assistance System using DSRC.
4. [**SoutheastCon'16**] Comparative Study of Connected Vehicle Simulator.
5. [**VNC'16**] Partitioning of Urban Transportation Networks Utilizing Real-world Traffic Parameters for Distributed Simulation in SUMO.

PRESS COVERAGE & LEADERSHIP ACTIVITIES

- Alumnus Md Salman Ahmed receives outstanding thesis award, ETSU News (**2018**). **Link**
- Team leader for IEEEXtreme Programming Contest 9.0 and 10.0 (**2016 & 2017**)

SELECTED ACADEMIC PROJECTS

- **Automatic Commit Generator**: Generates commit messages from source code differences between two version of a software. The source code differences are described using a natural language description and then the natural language description is translated into commit messages using a pre-trained neutral machine translation model.
- **Company Information Tracker**: A software tool that manages all kinds of information of small companies hosted in ETSU Innovation Lab. The tool also tracks their leases and resources, grants, survey information, etc.
- **Network Pool**: A simple pool game with multi-player support.
- **Compiler**: A compiler capable of generating intermediate code (assembly x86) from Pascal program.
- **Blinds' Eye**: A navigation tool for blind people using Ultrasonic sensor, MicroSD card and Micro-controller. The interfacing language was C.
- **4-bit CPU**: A navigation tool for blind people using Ultrasonic sensor, MicroSD card and Micro-controller. The interfacing language was C.

REFERENCES

Available upon request.