Mohamed Grissa

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EDUCATION

Fall 2013 – Spring 2018 (expected)	PhD	**Oregon State University**	Electrical and Computer Engineering	**GPA 3.82/4.00**
Fall 2013 – Spring 2015	MS	**Oregon State University**	Electrical and Computer Engineering	**GPA 3.78/4.00**
Fall 2008 – Fall 2011	BS	**Sup'Com (Ecole Supérieure Des Communications de Tunis)**	Telecommunications and Computer Networks – **2nd Major:** Computer Science	**GPA 4.00/4.00**

■ **Relevant graduate coursework:** Graph Theory, Machine Learning, Deep Learning (Auditing), Convex Optimization, Advanced Network Security, Applied Cryptography, Image Processing, Algorithms and Data Structures (Auditing).

SKILLS

Programming Languages

Python	●●●●○	C/C++	●●●●○
Java	●●●●○	Shell	●●●○○
Solidity	●●●○○	PHP	●●●○○
Objective C	●●○○○	Go	●●○○○
JavaScript	●●○○○		

Mobile App Development

Android	●●●●○
iOS	●●●○○

Libraries & Frameworks

Hadoop, MIRACL, Crypto++, numpy, scikit-learn, OpenCV.

Software and IDE

Wireshark, Eclipse, MATLAB, QT, Git, XCode, Netbeans, VMware, Visual Studio.

Databases: Oracle, MySQL, SQL, PostgreSQL

Cloud Platforms: Geni, AWS

Operating Systems: MacOS, Linux (Ubuntu, CentOS), Windows

PROFESSIONAL EXPERIENCE

---- **Graduate Research Assistant,** *Oregon State University*, Corvallis, OR ---------- **09/2013-present** ---

- I work on designing privacy enhancing protocols in wireless networks and systems like cognitive radio networks, IoT, mHealth.
- **Research interests:** Networks security and privacy, cognitive radio networks, Blockchain, wireless networks, IoT, digital health

---- **Research Intern,** *Nokia-Bell Labs*, Murray Hill, NJ ---------- **06/2017-08/2017** ---

- Designed a digital health solution using blockchain technology.
- Designed a consensus mechanism for handling transactions coming to the blockchain
- Implemented and deployed a working prototype and a demo of the proposed solution
- Implemented automation scripts for to deploy VMs, install required libraries, and create private Blockchain networks on Geni Cloud
- **Tools:** C/C++, Go, Python, Ethereum, Tendermint, Solidity, AWS, GENI Cloud.

---- **Android App Developer**, *Oregon State University*, Corvallis, OR ---------- **09/2013-06/2015** ---

- Developed an Android app for ICARDA (UN organization)
- It helps collecting and managing agricultural data to/from EMBRAPA's (Brazilian governmental organization) database.
- **Database:** PostgreSQL, has millions of entries
- **Tools:** Eclipse, Android SDK, PHP.

---- **Instructor of Introduction to Computer Networks,** *Oregon State University*, Corvallis, OR ------- **06/2014-08/2014** ---

- Introduced students to different concepts of Computer Networks and helped them with Wireshark labs.
- Assigned and graded homework, Labs, and exams
- **Class:** 26 students

---- **Value Added Services (VAS) Engineer,** *Orange France Telecom Group*, Tunis, Tunisia ---------- **09/2012-08/2013** ---

- Worked closely with the Project Managers on Solutions scoping, customization, and realization.
- Led few projects with team members from different departments (teams > 5 persons)
- Took a lead technical role in the deployment and successful integration of VAS products (e.g. IN, SMSC, VMS,…)
- Participated in technical integrations, upgrades and expansions of VAS products.

---- ***Software Developer,*** *Sup'Com*, Ariana, Tunisia ---------- **01/2012-08/2012** ---

- FireSense project, a Specific Targeted Research Project of the European Union's 7th Framework Program Environment.
- Participated in developing and integrating an early warning platform to remotely monitor areas of cultural interest from the risk of fire and extreme weather conditions.
- It includes a user-friendly interface in the control center that provides video on demand, weather condition information, sensors' location and Real time data from the fire's front and visualization of the fire's propagation.
- Tools: QT, C++, Google Maps API, Java, OpenCV.

---- **Software Developer Intern,** *Telecom ParisTech*, Paris, France ---------- **04/2011-09/2011** ---

- Designed an approach for rapid mapping of flooded areas using satellite images and Machine Learning Techniques
- The project was in cooperation with the Centre National d'Etudes Spatiales (CNES) and the European Spatial Agency (ESA).
- **Tools:** Satellite images, C++, QGIS, ArcGIS, ESRI, Orfeo toolbox, LibSVM

SELECTED PROJECTS

- Monitoring system with interactive GUI collecting data from different remote sensors to monitor archeological sites and alert authorities in case of fire or severe weather conditions.
- Android app to allow farmers collecting and managing agricultural data to/from large database.
- C++ implementation and optimization of Elliptic Curve El Gamal encryption scheme using MIRACL library.

LANGUAGES

English ●●●●● French ●●●●● Arabic ●●●●● Spanish ●○○○○

SELECTED PUBLICATIONS

- N. Papadis, S. Borst, A. Walid, M. Grissa, and L. Tassiulas. **Stochastic Models and Wide-Area Network Measurements for Blockchain Design and Analysis.** INFOCOM, 2018 Proceedings, to appear.
- M. Grissa, A. Yavuz and B. Hamdaoui. **When the Hammer Meets the Nail: Multi-Server PIR for Database-Driven CRN with Location Privacy Assurance.** Communications and Network Security (CNS), 2017 IEEE Conference on. IEEE, 2017, to appear.
- M. Grissa, A. Yavuz and B. Hamdaoui. **Location Privacy Preservation in Database-Driven Wireless Cognitive Networks Through Encrypted Probabilistic Data Structures.** IEEE Transactions on Cognitive Communications and Networking, 2017.
- M. Grissa, B. Hamdaoui, and A. Yavuz. **Location Privacy in Cognitive Radio Networks: A Survey.** IEEE Communications Surveys and Tutorials, 2017**.**
- M. Grissa, A. Yavuz and B. Hamdaoui. **Preserving the Location Privacy of Secondary Users in Cooperative Spectrum Sensing.** In IEEE Transactions on Information Forensics and Security. IEEE, 2017.
- M. Grissa, A. Yavuz, and B. Hamdaoui. **An efficient technique for protecting location privacy of cooperative spectrum sensing users.** Computer Communications Workshops (INFOCOM WK-SHPS), 2016 IEEE Conference on. IEEE, 2016.
- M. Grissa, A. Yavuz, and B. Hamdaoui. **LPOS: location privacy for optimal sensing in cognitive radio networks.** In Proc. of IEEE Int'l Global Communications Conference, 2016.
- M. Grissa, A. Yavuz, and B. Hamdaoui. **Cuckoo filter-based location-privacy preserving in database-driven cognitive radio networks.** In Proc. of World Symposium on Computer Networks and Information Security (WSCNIS), 2016.

PATENTS

- M. Grissa, A. Yavuz, and B. Hamdaoui. **Method for Protecting Location Privacy of Mobile Data Users.** OSU-16-14, DRAFT/072/16, Submitted: March 22, 2016.

ACTIVITIES & PERSONAL SKILLS

- **Personal Skills:** Willingness to learn, Resiliency, Organized person, Leadership, Team spirit, Problem solving.
- **Services:** Peer reviewer in IEEE Transactions on Wireless Communications, IEEE INFOCOM, IEEE GLOBECOM, IEEE ICC.
- **Presentations:**
  - Presented a paper in the IEEE Conference on Computer Communications Workshops (INFOCOM WK-SHPS), 2016, San Francisco.
  - Presented a paper in the IEEE Conference on Communications and Network Security (CNS), 2017, Las Vegas.
- **Volunteering:** Participated in organising a workshop about optical fibres for the Optical Society of America (OSA) and was featured in OSA's international magazine.
- **Clubs & Associations:** OSU App Club, OSU Security Club. **Leisure:** Ping-Pong, Soccer, Tennis, Swimming, and Reading.