

# Mohamed E. Najd

SOFTWARE ENGINEER @ CITRIX SYSTEMS

15 Network Drive, Burlington, Massachusetts, 01803, United States of America

☎ (+1) 909-653-2976 | ✉ mohamed@najd.im | 🏠 <http://www.najd.im> | 📁 [git.najd.im](https://git.najd.im) | 📺 menajd

## Education

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### Worcester Polytechnic Institute, (WPI) - GPA 3.67

100 Institute Road, Worcester, MA,  
United States

MASTER OF SCIENCE IN COMPUTER SCIENCE

Aug. 2015 - May 2017

- Research Interests: cybersecurity, network security, network performance.
- Sponsored through a Research Assistantship.
- Member of the Applied Logic and Security (ALAS) and Performance Evaluation of Distributed Systems (PEDS) research groups.

### Al Akhawayn University in Ifrane, (AUI) - GPA 3.92

Avenue Hassan II, Ifrane, Morocco

BACHELOR OF SCIENCE IN COMPUTER SCIENCE, MINORS IN MATHEMATICS AND COMMUNICATION STUDIES

Aug. 2010 - Dec. 2014

- An ABET Certified undergraduate programme providing the student with theoretical knowledge of Computer Science.
- Valedictorian of School of Science and Engineering - Class of 2015.

## Experience

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### Citrix Systems, Inc.

15, Network Drive, Burlington, MA,  
United States

SOFTWARE ENGINEER

July 2017 - Present

- Software Engineer, with cyber security background, working on the software developed by the WinApp Delivery Group at Citrix Systems Inc.

### Worcester Polytechnic Institute, CS Department

100, Institute Road, Worcester, MA,  
United States

RESEARCH ASSISTANT

Aug. 2015 - May 2017

- Working with Prof. Craig Shue on his research. Investigating methods to enhance enterprise network security using concepts from the software-defined networking paradigm.

### Al Akhawayn University in Ifrane

Avenue Hassan II, Ifrane, Morocco

UNDERGRADUATE TEACHING ASSISTANT

Aug. 2011 - Dec. 2014

- Helped professors with management of their classes. This included grading, tutoring and reviewing class content.
- Classes: Physics I - Object Oriented Programming - Computer Architecture - Operating Systems - Computer Networks.

### N+ONE Datacenters

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DATACENTER ENGINEER INTERN

May 2013 - Aug 2013

- Developed an Infrastructure as a Service (IaaS) self-provisioning platform based on Apache Cloudstack using JEE and AJAX.
- Performed data center operations: Adding new machines, managing VMs, maintaining servers.

### Freelance

Morocco

DEVELOPER / PROJECT MAINTAINER

2008 - 2010

- Worked as a Freelance computer programmer for different organizations/entities.
- Maintained UbuDSL (a network configuration tool) for ADSL Modems (details at: <https://launchpad.net/~ubudsl-maintainers>).

## Curricular Projects

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### Graduate School

Worcester, MA, United States

Aug. 2015 - PRESENT

- CS558: Network Security - Researching the use of Software-Defined Networking to manage multiple tunnels
- CS542: Database Systems - LogReview: a Web application for Literature Review Logging
- CS502: Operating Systems - Z502: A Simulation of an Operating System implemented in C.

### Undergraduate Curriculum

Ifrane, Morocco

Aug. 2010 - Dec. 2014

- EGR4402: Capstone Design - ike: A mobile outdoor activity path tracker using Apache Cordova.
- CSC3327: Internet Technologies - SimpleFT: A client/server for file synchronization using a proprietary protocol in Java.
- CSC3327: Internet Technologies - Dico: A web-application dictionary using JEE.
- CSC3324: Software Engineering I - SchoolManager: a standalone software to manage a technical learning school, in Java.
- CSCI131: Database Systems - SimpleDB: a simple Database Management System written in Java.

## Skills

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**Programming** C, C++, Java, Python, Haskell, PHP, JavaScript, Lua, Go  
**Systems** OSX/macOS, Linux, BSD  
**CS Skills** Kernel and Network Programming, Shell Scripting, Android Development, System Administration  
**Databases** MySQL/MariaDB, MongoDB, PostgreSQL, Cassandra, SQLite  
**Web Frameworks** SpringFramework, JavaSeverFaces ,AngularJS, Node.js  
**Languages** English, French, Arabic, (Learning German)

## Interests

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**Research** System and Network Security, Software-defined Networking, Network Performance, Cryptography  
**Current Research** Using Software-defined Networking to enhance network security, Proxy Performance measurement, Network Policies  
**Misc/Hobbies** Recreational Coding/Cryptography Problems/ Pentesting, Videogames, Hiking, Photography

## Honours & Awards

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### UNDERGRADUATE

2015 **Valedictorian**, Al Akhawayn University in Ifrane - School of Science and Engineering (CGPA 3.92) *Ifrane, Morocco*  
2010 - 2014**AUI Excellence Scholarship**, Al Akhawayn University in Ifrane *Ifrane, Morocco*

## Publications

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2016 **Whole Home Proxies: Bringing Enterprise-Grade Security to Residential Networks**, Curtis R. Taylor, *IEEE ICC 2016, Kuala Lumpur, MY*  
Craig A. Shue, Mohamed E. Najd  
2017 **DeepContext: An OpenFlow-Compatible, Host-Based SDN for Enterprise Networks**, Mohamed E. Najd, *IEEE LCN 2017, Singapore, SG*  
Craig A. Shue  
2017 **On the Feasibility of Cloud-Based SDN Controllers for Residential Networks**, Curtis R. Taylor, Tian Guo, *IEEE SDN-NFV 2017, Berlin, DE*  
Craig A. Shue, Mohamed E. Najd