ALIN TOMESCU

PERSONAL INFORMATION

email alinush@mit.edu

website http://alinush.org

WORK EXPERIENCE

2012-2013,

Summer 2014

PRIVATE MACHINES

Head of Research and Development

Designed, implemented and deployed the first prototype of the CipherRack

secure cloud infrastructure.

Designed and implemented cryptographic protocols for CipherLocker, a secure searchable cloud file storage engine, as well as other proprietary

cryptographic protocols.

Summer 2011 MICROSOFT

Software Development Engineer in Test (Intern) Developed a flexible performance framework in C# for testing critical Microsoft SQL stored procedures used throughout their AdCenter Business

Intelligence system.

Developed an ASP .NET user interface in C# for charting and graphing

performance results across release cycles.

Developed an automated code deployment tool for running daily basic

viability tests on the latest builds.

2008–2009 Stony Brook University

Information Technology Specialist Developed websites for various programs within the Outreach Division of

Stony Brook's Professional Education Program.

Developed and maintained Microsoft Access databases. Created and administered LISTSERV mailing lists. Assisted staff with various computer-related issues.

EDUCATION

2015-present Massachusetts Institute of Technology

Doctor of Philosophy

School: Electrical Engineering and Computer Science

Advisor: Prof. Srinivas Devadas

2013-2015 Massachusetts Institute of Technology

Masters of Science

GPA: 4.7 · Major: Computer Science

Thesis: PowMail: Want To Fork? Do Some Work.

Description: This thesis explored the idea of using cryptographic puzzles computed by email users to prevent equivocation in public key directories.

Advisor: Prof. Srinivas Devadas

2008-2012 STONY BROOK UNIVERSITY

Bachelors of Science

GPA: 3.98 · Summa Cum Laude · Major: Computer Science · Honors

Advisor: Associate Prof. Radu Sion

PUBLICATIONS

PrivateFS: A Parallel Oblivious Filesystem \cdot ACM CCS \cdot 2012 \cdot Peter

WILLIAMS, Radu SION, Alin TOMESCU

RESEARCH EXPERIENCE

2013-present COMPUTATION STRUCTURES GROUP

Research Assistant Focused on access pattern privacy, encrypted web applications, public key

> infrastructure (PKI) research. Affiliations: MIT; CSAIL Advisor: Prof. Srinivas Devadas

NETWORK SECURITY AND APPLIED CRYPTO LAB 2011-2012

Research Assistant Focused on access pattern privacy research.

Affiliations: Stony Brook University. Advisor: Associate Prof. Radu Sion

TEACHING EXPERIENCE

Spring 2014 Introduction to Algorithms (6.006)

Teaching Taught four recitation sessions each week.

Assistant at MIT Taught two review sessions before midterm exams.

Developed programming assignments for the problem sets.

Wrote recitation notes for students.

Developed questions for the student exams.

Helped students on the class discussion board and over email.

Held biweekly office hours.

Provided additional learning resources for my own section students.

ADVANCED C/C++ PROGRAMMING (CSE230) Spring 2011

Teaching Taught four CSE230 lectures on object oriented design in C++.

Assistant at Stony Helped students with C and C++ programming questions during officer **Brook University**

hours.

INTRODUCTION TO JAVA (CSE114) Fall 2009

Teaching Held biweekly, one-hour and twenty-minutes programming labs.

Assistant at Stony Responsible for overseeing, teaching and grading thirty students in CSE114.

Brook University Helped and advised students during office hours and over email.

2009-2012 STONY BROOK COMPUTING SOCIETY

Exam Reviewer Taught review sessions for Java programming, discrete mathematics and data

structures exams.

OTHER INFORMATION

2009-2012

Awards Academic Excellence in Computer Science · Computer Science Department at Stony Brook University · 2012

The SUNY Chancellor's Award for Student Excellence · State University of New

York (*SUNY*) · 2012 Undergraduate Recognition Award for Academic Excellence · Stony Brook

University · 2012 Outstanding Academic Achievement Award · Stony Brook University ·

University Scholars Senior Leadership Award · Stony Brook University · 2011

February 2011 Student of the Month Award · National Residence Hall Honorary

Chapter at Stony Brook University · 2011

Leadership Secretary of the Ashdown House Executive Committee Massachusetts Institute

of Technology · 2014–2015

President of the Romanian Student Association \cdot Massachusetts Institute of Technology \cdot 2014–present

Student Ambassador for the Stony Brook Computer Science Department \cdot Stony Brook University \cdot 2011–2012

Cofounder, Vice-President and President of the Stony Brook Game Developers Club \cdot *Stony Brook University* \cdot 2009–2010

Communication

Best Computer Science Senior Honors Project Presentation Award \cdot Stony

Skills Brook University · 2012

Languages Romanian · Native language

English · Fluent

Spanish · Basic (simple words and phrases only)
French · Basic (simple words and phrases only)

Interests Piano · Weightlifting · Dancing

November 17, 2015