

Vasilis Gerakaris

Curriculum Vitæ

CONTACT INFORMATION

🏠 Home Address	Zalongou 4, Kallithea, Athens
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EDUCATION

2015–2016 (expected)	MSc in COMPUTER SCIENCE University of Edinburgh Specialist Area: Cyber Security & Privacy Thesis: “Design & Implementation of a Password Strength Meter for Partial Passwords” Advisor: Prof. David ASPINALL GPA (<i>Expected</i>): Distinction
2008–2015	Diploma of Electrical & Computer Engineering in INFORMATION TECHNOLOGY (MEng equivalent) National Technical University of Athens Thesis: “Design and Implementation of a File Syncing Mechanism for a Distributed Storage System of a Cloud Computing Environment” - [Presentation] Advisor: Prof. Nectarios KOZIRIS GPA: 7.95/10, <i>Upper Second Class Honours (2:1)</i>

RESEARCH INTERESTS

Cloud Computing, Distributed Systems, Software & Network Security

NOTABLE COURSE PROJECTS

Extreme Computing (University of Edinburgh - MSc)

Used the Map-Reduce paradigm on an [Apache Hadoop](#) cluster to perform distributed computations of several tasks.

Secure Programming (University of Edinburgh - MSc)

Performed buffer overflow, SQL-injection, CSRF, XSS and other attacks on various vulnerable setups.

Applied Databases (University of Edinburgh - MSc)

Combined MySQL, Java and [Apache Lucene](#) to build a database with string and spatial searching capabilities.

Software Engineering (NTUA - 9th semester)

Designed and implemented features in an existing [SIP](#) Java project measuring over 10.000 source lines of code.

Operating Systems Laboratory (NTUA - 8th semester)

Co-Developed a Linux device driver for a wireless sensor network. Implemented a modular and customisable system call on a Linux kernel.

Database Systems (NTUA - 7th semester)

Co-Developed a website on a LAMP stack using PHP and MySQL, following the MVC architectural pattern. Contributed to the development of a MySQL administration web application in PHP.

TEACHING EXPERIENCE

FEB 2012 - SEP 2015

National Technical University of Athens

Teaching Assistant

Introduction to Programming (1st semester)

Winter semesters 2012–2013, 2013–2014, 2014–2015

Guided students through the computer lab part of the course. Explained fundamental programming concepts in [PaZcal](#) (an educational subset of the C programming language) and offered guidelines for proper coding practices and style. Wrote and maintained the [Vim syntax highlighter](#) used on the course server.

Programming Techniques (2nd semester)

Spring semesters 2012, 2013, 2014, 2015

Guided students through the computer lab part of the course. Explained programming concepts in C and C++, as well as using an IDE (Eclipse, Dev-C++) as part of a workflow. Prepared and gave presentations and live demos of programs to better demonstrate the use of several functions and data structures. Examined and graded students' programs based on correctness, performance and presentation.

AWARDS

2008 **Government-subsidised laptop**

(Awarded to the top 25% first-year students enrolled in the university)

2002–2008 **Annual Academic Excellence Award**

(Awarded to students that achieve a GPA higher than 18.5/20 each year)

LANGUAGES

GREEK:	Native Proficiency	Mother Tongue
ENGLISH:	Proficiency	C2 - CPE, ECPE, IELTS 8.5 Overall
FRENCH:	Intermediate	B1 - DELF 1

COMPUTER SKILLS

OS	MacOS, LINUX, Microsoft WINDOWS
Programming Languages:	Python, C/C++, Java, Ruby, ML/OCAML, BASH, PHP, HTML, JavaScript, others
Software Development Platforms:	Eclipse, NetBeans, Xcode, IntelliJ IDEA, Visual Studio
Typewriting /Typesetting:	LaTeX, LibreOffice, Microsoft Office, iWork
Version Control:	Git , Mercurial
Computing Tools:	MATLAB, SAGE , Mathematica
Networking:	Wireshark, Nagios, Quagga

EXTRACURRICULAR ACTIVITIES

2012-2015 Moderator on the [official forum](#) of the School of Electrical and Computer Engineering.

REFERENCES

Professor [David Aspinall](#)
University of Edinburgh
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Professor [Nectarios Koziris](#)
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