

Dr. Alexis Petrounias

Ph.D., M.Sc., B.Sc., MIEEE, MIET

Information Systems Engineer

(current as of October 2015)

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Overview

I develop software, provide technical advice, and manage teams of engineers.

My roles have ranged from researcher to software engineer to technology entrepreneur. I have led and mentored teams of developers, as well as transitioned companies from technology capability to end product. I am a strong technical writer and presenter, capable of communicating with both engineering and business audiences.

I focus on systems analysis, information architecture, software engineering, integration and testing, deployment and monitoring, project management, technical advisory, and business development.

My value proposition is practical experience coupled with a portfolio of successful projects, a worldwide network of professionals in a diverse set of software-related fields, and a thorough understanding of global developments in technology and corresponding markets.

I have worked on projects with large enterprises, media organizations, and startups, as well as various independent content creators, designers, artists, e-commerce retailers, scientists, doctors, dentists, legal professionals, political parties, and politicians.

I'm a Greek (EU) citizen and a bilingual native speaker of English and Greek. I hold a United States B1/B2 visa. Public endorsements available on [LinkedIn](#); personal references usually available upon request.

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Experience

Managing Partner & Co-Founder 10 / 2008 - present (7 years, 1 month)
Synergy Softworks

Information Technology and Services Industry, partnership, London, United Kingdom.

I am co-founder of [Synergy Softworks](#), a partnership of engineers, scientists, and analysts. Our specialties are software engineering, information architecture, systems analysis, and data science.

My role includes market research, capital raising, identity and representation, partner and client liaising, and contracting. Apart from involvement in internal projects and projects co-developed with select outside partners, I offer consulting services to clients and give talks to professional and academic audiences.

CTO & Co-Founder 6 / 2012 - present (3 years, 6 months)
modelogiq

Financial Services Industry, privately held, Frankfurt, Germany.

I am co-founder and CTO of [modelogiq](#), a financial modeling services startup which supplies modeling and collaboration tools for private equity analysts and investors.

My role includes systems analysis, information and software architecture, software engineering, technology strategy, hiring and mentoring, and project management.

Technical Adviser to the Board 1 / 2012 - 12 / 2012 (1 year)
Galoo

Information Technology and Services Industry, privately held, Cyprus.

I provide technical and strategic business advice to my client regarding technology selection, hiring, project management, product design, and software engineering. I am responsible for ensuring my client's startup is prepared from a technology and talent aspect for further rounds of institutional venture capital.

Principal Software Architect 2 / 2011 - 4 / 2012 (1 year, 2 months)
Sklavenitis

Retail and Wholesale Supermarket and Marketplace, privately held, Athens, Greece.

I led a team of developers responsible for creating a prototype for a large-scale electronic commerce platform for business to business, retail, marketplace, and logistics operations.

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My role included systems analysis, modeling and simulation, software architecture, software engineering, technology planning and estimation, liaising with external systems providers and integrators, hiring and mentoring, technology and know-how transfer to my client's associates and employees, and advising senior and middle management on technology.

Challenging aspects of this project were real-time operations (particularly inventory handling and product allocation), massive scalability (full supplier and purchaser integration), security (contractually binding product pricing), and bridging with multiple external systems (particularly banking, enterprise resource planning, till and point-of-sale systems, and logistics systems, including delivery and real-time time-slot allocation).

Technical Director
Piece of Cake

9 / 2009 - 11 / 2010 (1 year, 3 months)

Marketing and Advertising Industry, privately held, Athens, Greece.

I led a team of developers responsible for creating web services technologies and software for content delivery, portals, search engine optimization, e-commerce, and mobile content.

My role included technology strategy and planning, product development, project management and estimation, hiring and mentoring, software architecture, software engineering, technology and know-how transfer to my client's associates and employees, and the establishment of a company-wide collaboration workflow for future software projects.

Challenging aspects of this project were deployment and versioning (particularly per-client incremental feature deployment), consistent framework design (particularly generic cache and optimization subsystems for use by plug-in modules), and third-party module development (especially application programming interface design and documentation).

Researcher
AETHER Consortium

10 / 2005 - 5 / 2008 (2 years, 8 months)

London, United Kingdom.

Research in self-adaptive embedded technologies for pervasive computing architectures. European Commission (EC) integrated project through the Distributed Software Engineering Group, Department of Computing, Imperial College London, United Kingdom.

My research focused on concurrency and message passing, scheduling and fairness, and programming language design and virtual machine implementations.

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Education

Ph.D. Software Engineering, Imperial College London, 2008

Supervised by [Prof. Susan Eisenbach](#) and [Prof. Sophia Drossopoulou](#). Examined by [Prof. Maribel Fernández](#) and [Dr. Sebastian Hunt](#).

Thesis in the field of programming language design, titled “[On the Design of Chorded Languages](#).” My research focused on modern concurrency abstractions for object-oriented programming languages (chords and the join calculus), and scheduler specifications and guarantees of liveness, fairness and runtime performance. Member of the [Distributed Software Engineering](#) and [SLURP](#) groups.

M.Sc. Advanced Computing, Imperial College London, 2004

Supervised by [Dr. Naranker Dulay](#), [Prof. Paul H. J. Kelly](#), and [Prof. Susan Eisenbach](#); awarded with Distinction.

My thesis focused on real-time byte-code transformation in virtual machines for the enforcement of policy-based security mechanisms.

B.Sc. Computer Science, University of Sussex, 2003

Supervised by [Dr. Bernhard Reus](#); awarded First Class with Honors.

My thesis focused on Turing machine encodings, simulation, visualization, and programming.

International Baccalaureate, Anatolia College, 2000

Supervised by [Dr. Angelos Kalaroutis](#).

My thesis focused on distributed cryptographic voting protocols.

Awards

Doctoral Training Award, Imperial College London, 2004

All fees covered, awarded for academic achievement.

Master’s Training Award, Imperial College London, 2003

All fees covered, awarded for academic achievement.

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Publications

[SCHOOL: the Small Chorded Object-Oriented Language](#) (2006) by Sophia Drossopoulou, Alexis Petrounias, Alex Buckley, and Susan Eisenbach; First Workshop on Developments in Computational Models (DCM), 32nd International Colloquium on Automata, Languages and Programming (ICALP), Lisbon, Portugal; published in Electronic Notes in Theoretical Computer Science (ENTCS), Elsevier Press, March 2006.

[A Featherweight Model for Chorded Languages](#) (2008) by Alexis Petrounias, Sophia Drossopoulou, and Susan Eisenbach; Imperial College London, Department of Computing Technical Report, London, United Kingdom 2008.

[Fairness for Chorded Languages](#) (2009) by Alexis Petrounias and Susan Eisenbach; 11th International Conference on Coordination Models and Languages, (COORDINATION 2009), Lisboa, Portugal; published in Lecture Notes in Computer Science (LNCS) 511, pages 86-105, Springer, June 2009.

Talks

The (Non) State of Venture Capital in Greece (2010), invited talk at the Executive MBA course of the American College of Thessaloniki, Greece.

Fairness for Chorded Languages (2010), paper presentation at the 11th International Conference on Coordination Models and Languages, (COORDINATION 2009), Lisboa, Portugal.

Getting The Scheduling of Chorded Languages Right (2007), invited talk at the Department of Computing Research Group Seminar, Imperial College London, United Kingdom.

Concurrency using Chords (2006), invited talk at the British Colloquium on Theoretical Computer Science, Swansea, United Kingdom.

SCHOOL: a Small Chorded Object-Oriented Language (2005), paper presentation at the 32nd International Colloquium on Automata, Languages and Programming (ICALP), Lisbon, Portugal.

Teaching

Project Co-Supervisor (2006 - 2007) for final year students Demetris Nicolaou, Lefteris Volonakis, Xuefei Shen, and Shih-min Huang; assisted Prof. Susan Eisenbach at the Department of Computing, Imperial College London, United Kingdom.

Tutorial Assistant (2004 - 2005) for Network Security course; assisted Dr. Naranker Dulay and Dr. Emil Lupu at the Department of Computing, Imperial College London, United Kingdom.

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Affiliations

I am a member of the Institute of Engineering and Technology (IET), the Institute of Electrical and Electronics Engineers (IEEE), the Association for Computing Machinery (ACM), the Imperial College Alumni Association, the University of Sussex Alumni Association, and the Anatolia College Alumni Association (SAAK).

Interests and Hobbies

I am interested in information visualization, probability, memes, dialogue, narrative and story telling, ethics, world politics, political philosophy, cooking, and japanese animation. I am an avid reader of literature, especially fantasy, classics, and ancient texts. I practice Ju-Jitsu, Systema Orthodox martial arts, and Iyengar Hatha Yoga.

Notes

My Erdős number is five, through the following sequence of co-authors: Prof. Susan Eisenbach (4): Prof. Jeff Kramer (3): Prof. Dov M. Gabbay (2): Prof. Saharon Shelah (1).