


Konstantinos Kallas

Contact Information	Address: Mpoupoulinas 27, Dionisos, Greece, 14576 Phone: +30 6957814666 Email: konstantinos.kallas@hotmail.com Github: angelhof Website: angelhof.github.io	
Education	University of Pennsylvania Computer and Information Science, PhD student	<i>September 2018 – present</i>
	Eight Summer School on Formal Techniques Menlo College, Atherton, CA Organised by SRI International	<i>May 2018</i>
	National Technical University of Athens Electrical and Computer Engineering, Diploma Thesis: “HiPerJiT: A Profile-Driven Just-in-Time Compiler for Erlang” Advisor: Prof. Kostis Sagonas	<i>October 2012 – February 2018</i>
	Universita degli Studi dell’Aquila Computer Science, Erasmus Mobility Programme	<i>February 2015 – July 2015</i>
Working Experience	Google Summer of Code Student Worked with BEAM Community to extend the <i>ejabberd</i> open source project. Implemented support for the “Let’s Encrypt” ACME certificate acquiring protocol.	<i>May 2017 - September 2017</i>
	Big Data Application Developer Everis, Barcelona, Spain Internship at the Big Data Center of Excellence. Developed Big Data Applications using a plethora of tools in the Hadoop ecosystem.	<i>June 2016 - September 2016</i>
Teaching Experience	Lab Assistant, National Technical University of Athens Course: <i>Introduction to Programming</i> , 1st semester Professors: S. Zachos, N. Papaspyrou, V. Kantere, and P. Potikas	<i>Fall 2017</i>
Honors and Awards	Programming Competitions Participation in many programming competitions. Notable examples: ICFP Programming Contest 2018 (Lightning) <i>10th out of 91 teams</i> , IEEE Xtreme 2017 <i>Top 5%</i> and <i>3rd</i> in Greece, IEEE Xtreme 2016 <i>Top 10%</i>	<i>2015-2018</i>
	Heterogenous Computing Student Challenge Certificate HiPEAC CSW, Zagreb, Croatia Optimizing GPU implementation of the K-means algorithm (NTUA-team) Supervision: Prof. Georgios Goumas	<i>2017</i>
	EESTech Challenge Supervised Machine Learning Hackathon <i>Joint 1st place</i> among 40 teams.	<i>2017</i>
	The Great Moment of Education Scholarship from Eurobank EFG Achieving the highest rank in national qualifications exams in Dionisos high school.	<i>2012</i>
	9th European Union Science Olympiad Team-based science competition in Biology, Chemistry, and Physics. <i>1st place</i> in local round and <i>3rd place</i> in national round.	<i>2011</i>

	Mathematical Competition, Hellenic Mathematical Society <i>2010</i> Mathematical competition for high school students. Distinction in the 1st and 2nd local round.
Selected University Projects	Edsger Compiler  <i>Spring 2016</i> Course: <i>Compilers</i> – Professors: K. Sagonas and N. Papaspyrou Complete compiler for Edsger (a C-like educational language). Implemented a lexer, a parser, a semantic analysis pass and a transpiler to LLVM-IR.
	Chord Protocol Implementation  <i>Fall 2016</i> Course: <i>Distributed Systems</i> – Professor: N. Koziris Implemented two versions of the Chord protocol, one with sequential replica consistency and one with eventual replica consistency. Tested whether the replicated values satisfied the constraints set by the consistency protocols.
	Song Emotion Classifier  <i>Fall 2016</i> Course: <i>Pattern Recognition</i> – Professor: A. Potamianos Worked on an automatic emotion recognition system, dedicated to classifying the emotional content of songs. The system extracted the essential features from the songs and trained an SVM classifier.
Computer Experience	Programming Languages: Erlang, Haskell, Python, Coq, C, Scala, SML, Agda, Javascript, Matlab, Java, SQL Operating Systems: Extensive experience on the Linux OS and Linux Kernel Programming. Hadoop: Deep understanding of the Hadoop Ecosystem as well as hands on experience. Typesetting: Experience using \LaTeX .
Languages	Greek (Native), English (C2), Italian (C1), German (B2)
Interests	Pastimes: Guitar playing and music in general, Board Games, Table Tennis, Cinema, Travelling Programming: Working on several hobby and open source projects. Memberships: <i>IEEE</i> Member, <i>ESN</i> Member