

Konstantinos Kallas

Contact Information	Address: Mpoumpoulinas 27, Dionisos, Greece, 14576 Phone: +30 6957814666 Email: konstantinos.kallas@hotmail.com Github: angelhof Website: angelhof.github.io
Education	Eight Summer School on Formal Techniques <i>May 2018</i> Menlo College, Atherton, CA Organised by SRI International National Technical University of Athens <i>October 2012 - February 2018</i> Electrical and Computer Engineering, Diploma <i>GPA: 8.37/10</i> Thesis: <i>“HiPErJiT: A Profile-Driven Just-in-Time Compiler for Erlang”</i> Advisor: Prof. Kostis Sagonas Universita degli Studi dell’Aquila <i>February 2015 - July 2015</i> Computer Science, Erasmus Mobility Programme <i>GPA: 9.4/10</i> Selected Courses: Programming Languages, Cryptography, and Software Engineering
Working Experience	Google Summer of Code Student <i>May 2017 - September 2017</i> Worked with BEAM Community to extend the <i>ejabberd</i> open source project. Implemented support for the <i>“Let’s Encrypt” ACME</i> certificate acquiring protocol. Big Data Application Developer <i>June 2016 - September 2016</i> Everis, Barcelona, Spain Internship at the Big Data Center of Excellence. Developed Big Data Applications using a plethora of tools in the Hadoop ecosystem.
Teaching Experience	Lab Assistant, National Technical University of Athens <i>Fall 2017</i> Course: <i>Introduction to Programming</i> , 1st semester Professors: S. Zachos, N. Papaspyrou, V. Kantere, and P. Potikas
Honors and Awards	Heterogenous Computing Student Challenge Certificate <i>2017</i> HiPEAC CSW, Zagreb, Croatia Optimizing GPU implementation of the K-means algorithm (NTUA-team) Supervision: Prof. Georgios Goumas EESTech Challenge <i>2017</i> Supervised Machine Learning Hackathon <i>Joint 1st place</i> among 40 teams. Programming Competitions <i>2015-2017</i> IEEE Xtreme, Code Jam, Hash Code, Codechef Participation and distinction in several programming competitions. IEEE Xtreme 2017 <i>Top 5%</i> and <i>3rd</i> in Greece, IEEE Xtreme 2016 <i>Top 10%</i> The Great Moment of Education Scholarship from Eurobank EFG <i>2012</i> Achieving the highest rank in national qualifications exams in Dionisos high school. 9th European Union Science Olympiad <i>2011</i> Team-based science competition in Biology, Chemistry, and Physics. <i>1st place</i> in local round and <i>3rd place</i> in national round. 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 ☞

Spring 2016

Course: *Compilers* – 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 ☞

Fall 2016

Course: *Distributed Systems* – 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 ☞

Fall 2016

Course: *Pattern Recognition* – 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 Related
Experience**

Programming Languages:

Erlang, Haskell, Python, Coq (Gallina), 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:

IEEE Member, *ESN* Member