Georgios Liargkovas

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Education

Athens University of Economics and Business (AUEB)   *Athens, Greece*
BSc in Management Science & Technology   *Sep 2018 - Mar 2023*
- **Grade:** 9.37/10 (first among graduation series of 37 students) – **Major:** Software Engineering and Data Analysis
- **Select courses:** Applied Machine Learning, Algorithms & Data Structures, Analysis & Design of Information Systems, Applied Software Engineering, Database Management Systems, Big Data Management Systems Information Systems Implementation & Architecture, Compilers, Software Verification & Validation, Applied Software Engineering
- **Thesis title:** Scientific Collaboration and Diasporas - The case of Greek and Finnish co-authorship network.

Costeas Geitonas School (CGS)   *Athens, Greece*
High School Diploma   *Sep 2015 - Jun 2018*
- **Grade:** 19.8/20 *(first among graduate class of 22 students)*
- **Concentration:** Economics and Information Technology

Research and Work Experience

Secure Open Source Software and Hardware Adaptable Framework (SecOPERA)   *Athens, Greece*
Research Software Engineer (**Advisor:** Prof. Panos Louridas)   *May. 2023 - Present*
- Will implementat various modules of the Secure Open Source Software and Hardware Adaptable Framework (SecOPERA), a comprehensive hub for open-source solutions, offering analysis, security enhancements, and DevSecOps lifecycle support with verifiable security guarantees, funded by European Union's Horizon Europe grant.

Athens University of Economics and Business, BALab, AUEB   *Athens, Greece*
Junior Researcher (**Advisor:** Prof. Diomidis Spinellis)   *Mar 2020 - Present*
- Carried out research about the gap between software practitioners' education and industry demands. 📘
- Examined the use of static analysis suppression annotations to detect motives behind their use and impact on software projects. 📘 (under review)
- Currently assisting in research on "Empirical Investigation of Boilerplate Code".
- Leading an effort to develop a multiverse filesystem (similar to VCSs), still on primary stage.

Brown University   *Providence, RI, United States*
Research Affiliate (**Advisor:** Prof. Nikos Vasilakis)   *Oct 2022 - May 2023*
- Worked on expanding PaSh by creating a speculative, out-of-order execution engine of POSIX shell scripts. 📘
- Co-developed `try`, a lightweight tool that lets users run a command and inspect its effects before changing their live system, via Linux's namespaces and the Overlayfs union filesystem (4.5k+ Github stars).
- **Technologies & tools used:** Python, Shell scripting (bash/zsh), Docker, System call tracing & isolation, Linux namespaces, OverlayFS

Ubitech Ltd.   *Athens, Greece*
Software Engineering Intern   *Mar 2022 - Jun 2022*
- Implement backend/frontend components of a Content Management Software (CMS) for Heraklion Archaeological Museum.
- Implement front-end components for internal e-commerce project.
- **Technologies & tools used:** Java (Quarkus), Docker, Javascript (React, Vue.js), Figma

Teaching Experience

Athens University of Economics and Business   *Athens, Greece*
Applied Software Engineering *(Undergraduate Level, 3rd year, Students: 50)*   *Spring 2022, 2023*
- **Role:** Teaching Assistant (TA),
- Assisted in course assignment evaluation, providing feedback on individual students' assignments.

Athens University of Economics and Business   *Athens, Greece*
Introduction to Computer Science *(Undergraduate Level, 1st year, Students: 180)*   *Fall 2022*
- **Role:** Lead Teaching Assistant (TA)
- Responsible for overall course organization, lectures, labs, individual assignments, and assessment. Lectured on a weekly basis.
- Fully automated final examination by creating a customizable multiple choice exam generator.

Publications

- **Georgios Liargkovas**, Angeliki Papadopoulou, Zoe Kotti and Diomidis Spinellis, **"Software Engineering Education Knowledge Versus Industrial Needs"**, *IEEE Transactions on Education*, 2021 (link)

- **Georgios Liargkovas**, Konstantinos Kallas, Michael Greenberg and Nikos Vasilakis, **"Executing Shell Scripts in the Wrong Order, Correctly"**, *19th Workshop on Hot Topics in Operating Systems (HotOS XIX)*, Providence, RI, USA, 2023 (link)

Volunteering Experience

International Conference on Mining Software Repositories '23 (MSR '23)   *Lisbon, Portugal*
Co-Chair of Web Pressence   *April 2024*
- Responsible for creating and managing the conference's website.

International Conference of Software Engineering '22 (ICSE '22)   *Pittsburgh, PA, USA*
Student Volunteer   *May 2022*
- In-person conference support on physical and online conference sessions.

ESEC/FSE '22 Conference   *Athens, Greece (Remote)*
Student Volunteer   *May 2022*
- Remote conference support on online sessions.

JabRef   *Germany (Remote)*
Open-Source Software Contributor   *June 2021*
- Designed and expanded functionality for file import dialog windows (link)
- **Technologies & tools used:** Java (JDK 15, JavaFX)

ELOI Educational Lab, AUEB   *Athens, Greece*
Lab Assistant   *Sept. 2018 - Feb. 2019*
- Responsible for the operation and security of the lab during after hours, twice a week

Skills

Programming	C, HTML/CSS, JSP, JavaScript, MATLAB, Python, SQL, Shell scriptng, Java
Miscellaneous	Apache Hadoop, Git, Keras, LaTeX, MSSQL Server, Microsoft Office (ECDL Core), MySQL, Neo4J, PowerBI, Redis, SPSS, Shell (Bash/Zsh), TensorFlow2

Honors and Awards

2023	**HotOS Student Grant**, ACM SIGOPS	*Providence, RI, USA*
2022	**Research Scholarship Award**, Athens University of Economics and Business	*Athens, Greece*
2022	**ACM SIGSOFT CAPS Grant**, ICSE 2022	*Pittsburgh, PA, USA*
2022	**ACM SIGSOFT Support Grant**, Student Mentoring Workshop, ICSE 2022	*Pittsburgh, PA, USA*
2022	**Academic Award**, Athens University of Economics and Business	*Athens, Greece*
2018	**Academic Scholarship Award**, Costeas Geitonas School (CGS)	*Athens, Greece*

Societies & Affiliations

2023 -	**Student Member**, ACM SIGOPS	*New York, NY, USA*
2022 -	**Student Member**, ACM SIGSOFT	*New York, NY, USA*
2022 -	**Member**, MIT Hellenic Students Association	*Boston, MA, USA*

Languages

English	Fluent - C2
French	Intermediate - B2
Greek	Native

References available upon request.