

# 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 **Concentration:** Software Technologies and Data Analysis
- **Selected courses:** Programming II (Advanced Programming), Algorithms & Data Structures, Compilers, Software Verification and Validation, Information Systems Architecture & Design, Applied Machine Learning, Databases, Big Data Management Systems
- **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

May. 2023 - Present

- Will work on the implementation of various modules of the Secure Open Source Software and Hardware Adaptable Framework (SecOPERA) framework, 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".

### 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. 📖
- Developed [try](#), a lightweight tool that lets you run a command and inspect its effects before changing your live system, via Linux's namespaces and the overlayfs union filesystem. Currently with more than 4.5k Github stars.
- **Technologies & tools used:** Python, Shell scripting (bash/zsh), Docker, tracing, system call isolation, sandboxing, Linux namespaces, overlayfs

### Ubitech Ltd.

Athens, Greece

Software Engineering Intern

Mar 2022 - Jun 2022

- Implement backend and 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

Introduction to Computer Science (Undergraduate Level)

Fall 2022

- **Role:** Lead Teaching Assistant (TA)
- Undergraduate Level, 1st year, Students: 180
- Responsible for overall course organization, lectures, labs, individual assignments, and assessment. Lectured on a weekly basis.
- Fully automated final examination by creating a randomized custom [multiple choice exam generator](#).

### Athens University of Economics and Business

Athens, Greece

Software Engineering in Practice (Undergraduate Level)

Spring 2022, 2023

- **Role:** Teaching Assistant (TA)
- Undergraduate Level, 3rd year, Students: 50
- Assisted in course assignment evaluation, providing feedback on individual students' assignments.

## Publications

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- **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](#))

## Work Under Review

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- **Georgios Liargkovas**, Evangelia Panourgia, Diomidis Spinellis, “**Quieting the Static: A Study of Static Analysis Alert Suppressions**” Submitted on: *46th International Conference on Software Engineering (ICSE '24)*, Lisbon, PT, 2024

## Volunteering Experience

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### International Conference on Mining Software Repositories '23 (MSR '23)

*Lisbon, Portugal*

Co-Chair of Web Presence

*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 multiple conference sessions.
- Remote conference support on online 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

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<b>Programming</b>	C (pthreads), HTML/CSS, JSP, JavaScript (React), MATLAB, Python, SQL, Shell scriptng, Java (Core, Quarkus)
<b>Miscellaneous</b>	Apache Hadoop, Git, L <sup>A</sup> T <sub>E</sub> X, MSSQL Server, Microsoft Office (ECDL Core), MySQL, Neo4J, PowerBI, Redis, SPSS, Shell (Bash/Zsh)

## Honors and Awards

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

## Societies & Affiliations

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2022 -	<b>Member</b> , ACM SIGSOFT	<i>New York, NY, USA</i>
2022 -	<b>Member</b> , MIT Hellenic Students Association	<i>Boston, MA, USA</i>

## Languages

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**English:** Fluent - C2   **French:** Intermediate - B2   **Greek:** Native