Panagiotis Kostopanagiotis

Github | LinkedIn | Portfolio | E-mail

Professional Experience

Max Planck Institute for Informatics — **Saarbrücken, Germany**
Research Intern, Theoretical Computer Science, — *February 2021-Present*
Undergraduate Research Fellow on the Algorithms and Complexity Group specializing in Sublinear and Streaming Algorithms.

Bloomberg LP — **London, UK**
Software Engineering Intern, Financial Analytics, — *July 2020 – September 2020*

- Project: Quantum Computing for Option Valuation Description.
- Architectured and Implemented an API to price a variety of option contracts
- Designed the Algorithm used for the pricing using Quantum Amplitude Estimation
- Built a communication protocol to communicate via HTTP Requests with the **IBM Quantum Machines**.
- Integrated and Deployed the API to the Bloomberg Derivatives Library.
- Main technologies used: Python, C++, Qiskit, Numpy, Matplotlib, SciPy, Javascript, Typescript.
- Relative Literature: **Option Pricing Using Quantum Computing**

Education

BSc/MSc Electrical and Computer Engineering — **Athens, Greece**
National Technical University of Athens — *2015-2021*

- Integrated Bachelor and Master Degree on Electrical and Computer Engineering.
- Advanced coursework on Algorithms, Computational systems, Programming Languages, Mathematical Foundations of CS, Probability and Stochastic Processes.
- Teaching Assistant on: Algorithms and Complexity, Discrete Math.
- Master Thesis: Approximation Algorithms for the Dynamic Min Sum Set Cover Problem.

Technical Skills

- **Programming:** C, C++, Python, Java, ML, Haskell, Prolog, Javascript, Typescript
- **Libraries/Frameworks:** Numpy, Qiskit, Pandas,SciPy, Matplotlib, React.JS, Node.JS, Flask
- **Tools/Technologies:** Git, Github, MySQL, Vim, Bash/Unix Shell, LaTeX

Honors and Awards

International Olympiad In Informatics, Balkan Olympiad in Informatics
Ranked 2nd and 3rd nationwide.Participated as a member of the national team. — *2013-2015*

IEEEXtreme International Programming Competition
Ranked 55th, 48th and 17th worldwide out of more than 4500 teams. — *2016,2017, 2020*

ACM/ICPC Southern Eastern Regional Contest — **Bucharest, Romania**
Represented my university in a team of 3. We ranked 19th out of 87 teams. — *2018*

Publications

On the Approximability of Dynamic Min Sum Set Cover — **Glasgow, Scotland**
Colloquium on Automata, Languages and Programming(ICALP 2021) — *2021*

Reallocating Multiple Facilities on the Line — **Macao, China**
International Joint Conference on Artificial Intelligence(IJCAI 2019) — *2019*