

Nikolaos Ntokos

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PhD Student of Computer Science and Engineering - University of Texas at Arlington

RESEARCH INTERESTS

Systems with a focus on Mobile Systems, Optimizations, AR/VR/XR, AI/ML, and Security & Privacy solutions

PUBLICATIONS

Workshops & Posters

- [1] Nikolaos Ntokos, Nahin Kumar Dey, Jiayi Meng, and Faysal Hossain Shezan. Do Privacy-Preserving Obfuscation Techniques Degrade the Accuracy of Odometry? In **ACM MobiCom**, 2024.

EDUCATION

Ph.D. in Computer Science Aug. 2023 - Present
The University of Texas at Arlington, Arlington, TX

B.E. and M.S. in Naval Architecture & Marine Engineering Grad. June 2021
National Technical University of Athens (NTUA), Athens, Greece

RESEARCH & PROFESSIONAL EXPERIENCE

The University of Texas at Arlington | *PhD* Aug. 2023 - Present

- Introducing optimized security and privacy in XR tasks
- Analyzing performance of odometry in privacy-preserving scenarios

The University of Texas at Arlington | *Graduate Teaching Assistant* Aug. 2023 - Present

- Object-Oriented Programming (CSE 1325): Fall 2023
- Distributed Systems (CSE 5306): Spring & Fall 2024

Personal Projects | *Software Developer* Mar. 2015 - Present

- Developed a tolls calculation mobile application in Swift, using the Google Maps SDK and a self-made algorithm
- Developing a mobile application for (specific) medical use in Flutter for deployment in both iOS and Android
- Developing a DNN-based (TensorFlow) computer vision mobile app with live pose estimation for human bio-mechanics

National Technical University of Athens (NTUA) | *Thesis* Nov. 2020 - Feb. 2021

- Designed web apps for Techno-Economic study of Diesel-Electric retrofit and Cold-Ironing for vessels
- Developed a web app for the digital laboratory of the NTUA marine-electrical lab using the Laravel framework

General Staff of the Navy - Greece | *Software Developer* Mar. 2021 - Nov. 2021

- Developed web apps for internal use of the Hellenic Navy (Army)
- Maintained organizational applications for current and retired staff of the Hellenic Navy built with Laravel

Alpha Bulkers Shipmanagement | *Jr. Technical Superintendent* Oct. 2021 - Aug. 2023

- Performed vessels troubleshooting and attended technical supervision and evaluation
- Managed projects for EEXI, Biofuels, BWTS and retrofits including generation of technical reports for Class and Flag
- Performed drydocking planning and budget preparation, assistance of attending supervisor up to final invoice
- Developed computerized algorithms for data processing, vessel monitoring and performance evaluation

Alpha Bulkers Shipmanagement | *Newbuildings Dept. Intern* Jun. 2020 - Sept. 2020

- Executed Plan Approval
- Completed newbuilding specifications evaluation, negotiations and final contract evaluation

HONORS & ACCOLADES

ACM MobiCom 2024 Student Travel Grant Award | *Washington, D.C.* November 2024

- Student Travel Grant award for the expenses of attending the ACM MobiCom 2024 conference in Washington, D.C.

IEEE MOST 2024 Student Travel Grant Award | *Denton, TX* May 2024

- Student Travel Grant award for the expenses of attending the IEEE MOST 2024 conference in Denton, TX

- Student Travel Grant award for the expenses of attending the ACM/IEEE SEC 2023 conference in Wilmington, DE

SKILLS & INTERESTS

- Languages & Tools: Python, C, C++, Matlab, Dart, Swift, Bash Script (Advanced), Objective-C, Fortran (Intermediate)
- Full-Stack Web Development: Laravel, PHP, HTML, CSS, MySQL, Firebase
- Software: CAD/CAM (Rhino, AutoCAD, Aveva), MS Office (Advanced), Adobe Photoshop/Illustrator (Intermediate), and others.
- Known Languages: Greek (native), English (C2: Certificate of Proficiency)
- Former Track & Field Athlete (Competitive), Current Triathlete/Runner (Amateur)