

## EXPERIENCE

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- **Software Engineer: Blockchain Researcher** May 2017 - Present  
*"Athena" Research and Innovation Center* *Athens, Greece*
  - **Data Processing:** Researched and implemented an open source software library for accountable and privacy preserving data processing via distributed ledgers. It uses zkSNARKs to provide proofs of correctness of computation which in turn can be verified with the use of smart contracts on the ledger. Build with: Node.js, React, web3.js, Solidity, truffle, and Pequin (SNARKS).
  - **Distributed privacy preserving analytics service:** Implemented a distributed service in which privacy preserving computations can be requested. Specifically:
    - \* Design and developed various distributed scalable components using Node.js.
    - \* Design and implemented communication protocols as state machines.
    - \* Designed and implemented a RESTful API using Node.js and Express.
    - \* Developed a web app using React and Redux.
    - \* Build a data adaptive processing module using Python.
    - \* Implemented an importer to allow external data providers to import data to an SMPC cluster using SCALE engine (SDPZ protocol) and C++.
    - \* Implemented privacy preserving algorithms using MAMBA.Build with: Node.js, React, Redux, Python, WebSockets, C++, and SCALE-MAMBA (SMPC).
  - **Reports & Proposals:** Wrote deliverable reports and proposals for upcoming projects.
  - **Training:** Trained staff in blockchain technologies and applications.
- **Teaching Assistant** Feb. 2019 - Jun. 2019  
*University of Athens* *Athens, Greece*
  - **Security of Information Systems: Introduction to Blockchain Science & Engineering:** Give lectures about Ethereum and Solidity. Prepared assignments. Answered to student questions. Kept lecture logistic. Created and maintained lecture's site.
- **Software Engineer** May 2018 - Oct. 2018  
*SignedBlock* *Athens, Greece*
  - **Blockchain course for National Bank of Greece:** Trained a group of software developers of the NBG in blockchain technologies. Introduced theory of ledgers focusing on the blockchain applications of Bitcoin and Ethereum. Trained employees to implement smart contracts in Ethereum with the use of Solidity.
  - **Decision making:** Participated in weakly stand ups discussing company related strategies.
  - **Decentralized Application:** Implemented a prototype DApp in Ethereum using React, Redux, Node.js, MySQL, and web3.js.
- **Full Stack Web Developer** Athens, Greece  
*Freelancer* *Apr. 2013 - Sep. 2016*
  - **Roleplay - Design Agency:**
    - \* **dmod.gr** (e-shop of modular products): Front end & Back end Implementation. WordPress, WooCommerce, HTML5, SASS, JavaScript, Responsive
    - \* **idillivillas.gr** (accommodation): Front end & Back end Implementation. WordPress, HTML5, SASS, JavaScript, Responsive
    - \* **novamelancholia.gr** (performance): V2 - Front-end Refactor / Redesign, Back-end Implementations. Ruby on Rails, HTML5, CCS3, JavaScript, Responsive
    - \* **designpot.gr** (architecture office): Front end & Back end Implementation. HTML5, CCS3, JavaScript, Responsive
    - \* **athensinsiders.com** (travel agency booking system): Front end & Back end Implementation. WordPress, HTML5, CCS3, JavaScript, Responsive
    - \* **horos-net.gr** (yoga studio): Workshop Registration WordPress Plugin Development. WordPress, HTML5, CCS3, JavaScript, Responsive
    - \* **artech.cc** (course e-class): Front end & Back end Implementation. WordPress, HTML5, CCS3, JavaScript, Responsive

- \* **atalantimouzouri.gr** (yoga studio): Front end & Back end Implementation. WordPress, HTML5, CCS3, JavaScript, Responsive, Google Calendar API
- \* **exilefilms.gr** (film industry): Front end & Back end Implementation
- \* **everymatic.com** (tour agency): Front end development & HTML Newsletter. WordPress, CSS3, HTML5, JavaScript, Responsive
- **MoyStudio - Architecture office:**
  - \* **moystudio.gr** (architecture office): Front end & Back end Implementation. WordPress, HTML5, CCS3, JavaScript, Responsive
- **Lamb and Lamp - Design Agency:**
  - \* **margretkoell.com** (artist): Front end & Back end Implementation. WordPress, HTML5, SASS, JavaScript, Responsive.
- **University of Granada, Autonomous University of Madrid:**
  - \* **cedel2.learnercorpora.com** (research): RESTful API, Backbone.js, Bootstrap, WordPress, SASS
- **Internship** Nov. 2008 - Feb. 2009  
*National Bank of Greece* *Athens, Greece*
  - **Technical Support:** Installed and configured computer hardware, software, systems, printers and scanners. Interact with employees to analyze and determine the nature of problem. Investigated, diagnosed and solved computer software and hardware faults. Repaired equipment and replaced parts.

## EDUCATION

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- **Master of Science in Theoretical Computer Science** Sep. 2015 - May. 2018  
*National and Kapodistrian University of Athens* *Athens, Greece*
- **Bachelor of Science in Computer Science** Sep. 2004 - Sep. 2010  
*University of Piraeus* *Athens, Greece*

## PUBLICATIONS

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- **Cryptocurrency Egalitarianism: A Quantitative Approach:** Karakostas D, Kiayias A, Nasikas A, Zindros D. Tokenomics '19.

## PROJECTS

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- **Horizon 2020 Project: «My Health - My Data»:** MyHealthMyData (MHMD) is a Horizon 2020 Research and Innovation Action which aims at fundamentally changing the way medical data are shared.
- **Member of Cryptolab and Athens Blockchain Technology Lab at University of Athens:** Supervisor: Aggelos Kiayias.
- **blockchain-course.org:** Open-source blockchain course web app. Created assignments and teaching material. Built with: Node.js, React, web3.js, Solidity, Ganache, truffle, and PostgreSQL.
- **Blockchain course at National Technical University of Athens:** Delivered lectures for the blockchain study group at NTUA
- **Monero address generator:** A pure JavaScript tool for generating monero's stealth addresses. Build in Node.js
- **Administrator panel:** A panel for organizing projects, logistics and contacts. Build with Laravel and React.

## PROGRAMMING SKILLS

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- **Languages:** JavaScript, Solidity, Python, PHP, C++, Java.
- **Web:** HTML5, CCS3, SASS, React, Node.js, Bootstrap, WordPress, Laravel, web3.js, Truffle.
- **Technologies:** Git, NPM, Yarn, Webpack, RESTful WebServices, AJAX, Ethereum, Blockchain, LaTeX, Mocha, Chai, Docker.

## SPOKEN LANGUAGES

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- English (Professional working proficiency), Spanish (Professional working proficiency), Greek (Native)