

# Vittis Vasileios

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## 1. EDUCATION

<b>Integrated Master's Degree</b>	<b>Technical University of Crete, Chania</b> School of Electrical and Computer Engineering Class Rank: 5.8% GPA: 3.3/4 GPA (Computer Science): 3.6/4  Fifth year: GPA: 3.7/4 – <b>Thesis:</b> <i>“Online Ensemble Classification Algorithms for Big Data Streams at Apache Flink”</i> Advisor: Prof. Antonios Deligiannakis Distributed Computation, Machine Learning, Scalable Computation, Data Stream Processing, Concept Drift Adaptation – Research Project: <i>“Distributed Random Forest at Apache Spark”</i> Hoeffding Trees, Online Bagging, Boosting, Adaptive Random Forest, Weighted Voting – Project: <i>“Reservoir Sampling for Group-By Queries at Apache Flink”</i> Two-Pass Algorithm, Statistical Analysis, Data Sampling, Data Stream Processing	October 2021
<b>A Level CS Courses</b>	Special Topics in Database Systems* (10/10), Approximation Techniques for Massive Databases and Data Streams* (8.5/10), Artificial Intelligence (9/10), Multi-Agent Systems (8.5/10), Databases (9.5/10), Services in Computational Cloud and Fog (9.5/10), Digital Signal Processing (10/10) (*graduate courses)	
<b>Languages</b>	<b>Greek</b> (Native) <b>English</b> (IELTS CEFR Level C1) <b>French</b> (Certificat Pratique de Langue Française - Sorbonne C1)	

## 2. RESEARCH & ACADEMIC EXPERIENCE

<b>External Researcher</b>	<b>Technical University of Crete, Chania</b> under Prof. Antonios Deligiannakis Research on online machine learning and databases	November 2021 -
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### 3. RESEARCH SKILLS

- **Programming Languages:** Python, Java, Scala, C, Matlab, SQL, NoSQL, Solidity
- **Environments & Tools:** Apache Flink, Apache Spark, TensorFlow, Keras, Pandas, MapReduce (Hadoop), Server-Client Architecture, Cloud/Fog Computing

### 4. RELEVANT PROJECTS

- **Web Application Development using Docker** Sept 2019 – Dec 2019  
Design and implementation of independent services using Docker containers. Server-side implementation, asynchronous programming, https redirects, session variables. Development of user and cloud interface. (Ranked 2<sup>nd</sup> best)
- **Evaluation of Machine Learning Algorithms for NPSLE classification using resting-state fMRI connectivity data** Feb 2018 – June 2018  
Robustness validation of ML classification algorithms: SVM, k-NN, Naïve Bayes, Random Forest. Exploration of feature reduction/selection methods: PCA, LDA and Pearson's correlation. (Ranked 3<sup>rd</sup> best)
- **TinyOS-3 extensions** Sept 2018 – Dec 2018  
Implementation of functional extensions of an operating system based on a virtual machine. Implementation of Multilevel Feedback Queue, Multilevel Thread Execution, Pipes and Sockets
- **Database Management Project** Feb 2017 – June 2017  
Data management, data recovery, trigger deployment, implementation of Views using PostgreSQL functions. Query performance monitoring and updated view under JDBC protocol.

### 5. WORK EXPERIENCE

- **Blockchain Developer** Sept 2021 – Today  
Joined a group building base layer protocol for global, generic attestations in the Ethereum Network.
- **Web Search Evaluator at Appen Co.** April 2018 – Sept 2018  
Ensuring the accuracy, quality and relevance of information found in the results of search engine queries.

### 6. HONOURS AND AWARD

<b>1<sup>st</sup> Place</b> Entrepreneurship Initiative Start-up Pitch Greece Section	March 2020
<b>2<sup>nd</sup> Place</b> Athens Literary Workshop	Sept 2013

### 7. VOLUNTEER ACTIVITY

Chairman of IEEE TUC Student Branch	May 2019 – May 2020
Workshop Instructor for “ <i>Mathematical Shapes with Python</i> ” on TUC WelcomeDay	Sept 2019
IEEE Webmaster (TUC Student Branch)	May 2019 – May 2020
IEEEExtreme 2018 Ambassador	Oct 2018