KONSTANTINOS GEORGIOU

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INTRODUCTORY PROFILE

Analytically minded Machine Learning Engineer with a strong mathematical and software engineering background; gained deep understanding of deep learning, statistics, and software architecture during academic achievements. Unique mix of professional and academic experience that formed strong skills in research, collaboration, innovation, and product delivery.

CORE COMPETENCIES AND TECHNOLOGIES

Languages: Python, Bash, NodeJS, Java
Frameworks/Tools: Pytorch, Tensorflow, Apache Spark, Kafka, Django, Docker, Hadoop
Databases: MySQL, MongoDB, PostgreSQL/Vertica, HBase
Services: AWS, GCP, Jenkins, Travis/Circle CI
Skills: Research, Computer Vision, Community Detection, Software Design

PROFESSIONAL EXPERIENCE

University of Tennessee – US   Jan 2021 – Now
Graduate Research Assistant

Researching cutting-edge computer vision topics at the AICIP Lab of Dr. Hairong Qi; established a strong research mentality while working alongside brilliant people with invaluable insights into the field.
Key achievements
- Conducting leading-edge research for modeling and understanding transient earth data on a project sponsored by IARPA SMART.
- Demonstrated state-of-the-art results competing at IEEE DFC2022; collaborated to develop a contrastive learning framework for pixel-level semantic segmentation on multi-band satellite images. Pending acceptance of related paper.
- Successfully compiled a comprehensive review of the history and current state of object detection and tracking as part of my qualifying exam.

Performance Technologies S.A. – Greece   May 2019 – Dec 2020
Software/Big Data Engineer

Cultivated soft skills while training and supervising small teams; handled communication and goal setting with demanding clients. Presented technical capabilities in data engineering, software design, and cloud orchestration.
Key achievements
- Developed and maintained a large project for the major telecommunication provider of Greece; it was designed to replicate terabytes of data from hundreds of sources into a data lake with low latency and resiliency in mind.
- Coached the construction of a deep learning model that predicts the fulfillment time of orders using a highly dynamic dataset.
- Led the development, testing, and delivery of a large-scale service for benchmarking and crediting the SIP call quality of the Public Sector in Greece.

Global Voices Ltd – UK   Jul - Dec 2017
Software Engineer

Championed quality-driven product delivery with top programming standards in a multi-cultural environment. Harnessed communication skills to convey complex technical details to non-technical people in a user-friendly format.
Key achievements
- Delivered an online medical consultation system with telecommunication services; exposed to product development, from ideation to launch while gaining skills in requirements analysis (scoping), and optimization.
- Conceptualized and constructed a service that polls and indexes information from various sources for assisting the linguistic department of the company to find potential clients based on keywords.

Global Voices Ltd – UK   Feb - May 2017
Software Engineer (Internship)

Awarded the Erasmus+ Placement scholarship. Showcased ability to adapt and learn in a dynamic environment which led to my first full-time job offer.
Key achievements
- Integrated the company's SQL server with Oracle NetSuite by engineering scripts to facilitate record synchronization.
- Supported the back-end development of a linguistic portal in an agile team of five people.

EDUCATION

University of Tennessee – Knoxville, TN, US   Jan 2021 - Now
Ph.D. in Data Science and Engineering

- Attained deep understanding of statistical modeling, Bayesian formulation, and hidden Markov models by completing challenging coursework.
- Designed bare-bone implementations of various classical and deep learning models such as CNNs and AEs which rewarded me with strong intuition on the low-level technicalities of such models.
- Successfully coordinated several groups for completing projects such as Transformer-based text generation and daily vaccination rates prediction with efficient task allocation and high-quality delivery in mind.

University of Patras – Greece   Sept 2012 - Feb 2019
Integrated Master's in Computer Engineering and Informatics

- Presented proficiency in conducting research by devising an innovative approach for scaling a previously thought non-scalable community detection algorithm; published as the first author in a peer-reviewed journal.
- Demonstrated skills in algorithm design, data structures, and classical machine learning while excelling in academic projects and programming competitions.
- Cemented strong computer science foundations by completing highly demanding coursework in Numerical Analysis, Signal Processing, Operating Systems, Compilers, and Distributed Computing.

CERTIFICATIONS

- Intel Edge AI Foundational Course Scholarship (Udacity)   2020
- GRE (Quant: 165, Verb: 151, W: 3.5)   2019
- Docker and Kubernetes: The Complete Guide (Udemy)   2019
- IELTS: 7.5   2018
- The Ultimate Hands-On Hadoop - Tame your Big Data! (Udemy)   2018
- Data Science, Deep Learning and Machine Learning with Python (Udemy)   2018
- MongoDB Essentials - Complete MongoDB Guide (Udemy)   2018
- Google Developer Challenge Scholarship: Android Basics (Udacity)   2017
- BerkeleyX: CS105x Introduction to Apache Spark (EdX)   2016