GEORGIOS **TSAKOUMAKIS**

Computer Science Student

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Ambitious, hardworking, and results-driven second-year Honours student pursuing a challenging Placement opportunity. Bringing forth learning enthusiasm, with profound interest in the dynamic fields of artificial intelligence and machine learning. Highly motivated, structured, methodical, and precise, with excellent communication skills, strong team spirit, and a formidable scholarship-awarded academic background, I dedicate myself and focus to any undertaken project, and always strive to achieve excellence.

EDUCATION

Newcastle University

Bachelor's degree in computer science -
Predicted First-Class degree
2022 – 2026

- Currently pursuing a First-Class degree with Honours.
- Excelled in courses like Computer Architectures, Algorithm Design & Analysis, Security & Programming Paradigms, Programming modules in Python & Java, and Foundations of Data Science among several others.
- Elected Welfare Officer of the Executive Committee of the Cyber Society.
- One of the main organizers of the 1st Newcastle University Hackathon NUHack Alpha.
- Acted as Project Manager for a team project involving a quiz management system built with Java, Hibernate and a MySQL database.

TECHNICAL SKILLS

- Python | C# | Java | C | JavaScript MySQL | PostgreSQL | SQLite | MongoDB
- React | Flask | Node | Express | HTML | CSS | Redux | jQuery | D3 Unit testing | Jest | Linux | Bash | Azure | Git | Docker | REST APIs | AWS: EC2 | DynamoDB | S3 | Lambda | ELB | EBS | Athena OOP | SOLID | TDD
- Windows | MacOS | Linux (Kali, Ubuntu, ParrotOS)

PROFESSIONAL EXPERIENCE

Researcher - Formula Student AI

Newcastle Racing | Feb 2024 - Present

- Working on the development of revolutionary autonomous driving algorithms for real-sized racing cars and participating in races with other FS AI university teams in Silverstone.

Research Software Intern

Newcastle University | Dec 2023 - Present

- Designing autonomous algorithms and tracks for F1TENTH cars that will be used in demonstrations and races by the university.

Instrumental Soloist

Newcastle University | Dec 2023 - Present

- Rehearsing and recording specially commissioned musical compositions that form part of an art installation presented in an exhibition that features art from the Middle East and North Africa.

Airliner Operational and Management Manuals Database Developer

Marathon Airlines S.A. | July 2023 - Oct 2023

- By employing advanced document management and control techniques, managed to improve the productivity of my department by over **900%**, facilitating the upload of documents from weeks to hours.
- Promoted an alternative online document control solution for enhancing productivity by another **3000x** while reducing costs by **2400x** per administrator.

Online Aircraft Maintenance Software Developer Intern

AviaSeven Ltd. Aviation Services | July 2023 - Oct 2023

- Analysed the existing aircraft maintenance planning and control system operation and identified bugs and errors in the software that were impairing the planning team's productivity and efficiency.

LANGUAGES

English
- Full professional proficiency

Greek
- Native bilingual proficiency

Serbian
- Native bilingual proficiency

French
- Professional working capacity

Spanish
- Limited working proficiency

HONOURS & AWARDS

Vice-Chancellor's Excellence Scholarship
- Awarded **one of the 13** Vice-Chancellor's Excellence Scholarships available to students across all disciplines.

Endowed Prize for Academic Excellence
- Given to first-year students for Outstanding Academic Achievement. One of only two students to receive the award in the School of Computing for Stage 1.

Ionios Lyceum Excellence Scholarship
- Awarded the highest scholarship for years 8-12 for being valedictorian of my class.

COMPETITIONS

DurHack
- Won Best Domain Name award in Nov 2023 and participated in Nov 2022.

ICPC - The UK & Ireland Programming Competition
- Placed 3rd from Newcastle University

Snyk - FetchTheFlag CTF
- Placed 152nd out of 1962 teams.

BAE Systems - Capture-the-flag
- Participated in Oct 2022.

PROJECTS

Eloquently Ruined Lyrics - DurHack 2023
- Developed a web application that searches for song lyrics and uses AI to create reimagined lyrics along with a new album cover and provides text-to-speech functionality. Hosted on eloquentlyruinedlyrics.co.uk with Google Cloud and Flask. Won Best Domain Name award at DurHack 2023.

Plane View Web App - DurHack 2022
- Developed an App that renders a real-time view of Earth from an existing airplane in the air which simulates the view a passenger would get. Built using Python, Selenium, Node.js, HTML, and Mapbox API.

Machine Learning - BA Virtual Experience
- Used Python and BeautifulSoup to web scrape online reviews, scikit-learn to train a RandomForestClassifier model to perform sentiment analysis on the data from the customer reviews, and pandas and matplotlib to render results visually.

VOLUNTEERING

Cyber Society Welfare Officer
Newcastle University | Jun 2023 - Present
- Ensuring the well-being and comfort of all members of the society and making sure everyone feels safe and included in a judgment-free space.
- One of the three founding members and organizers of the first Newcastle Hackathon NUHack Alpha.

Student Mentor
Zero Gravity | Aug 2023 - Present
- Working with students from state schools to help them get into the top university of their choice.

Peer Mentor
Newcastle University | Apr 2023 - Present
- Contributed to the academic and personal growth of incoming freshmen within the university community. Utilised this role as a platform to make a positive impact by fostering a supportive and engaging environment for students transitioning into university life.

HOBBIES

Shotokan Karate-Do
- Obtained the first Dan black belt after 6 years of consistent training at the Japanese Association of Martian Arts, Athens, Greece.

Piano
- Over 12 years of piano playing experience at a soloist level, having played in countless recitals over the years. Currently an Instrumental Soloist for Newcastle University.

Musical Studies
- Excelled in the advanced courses of Theory of Music, Harmony, History of Music, Morphology, and Chamber Music, at the most prominent Hellenic Conservatories.