

# Andreas Chatzopoulos

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## EDUCATION

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- **University of Sussex** Brighton, UK  
*BSc (Hons) Computer Science (Standing First-Class Honours)* 2023 – 2026 (Expected)
  - **Key Modules:** Software Engineering, Mathematical Concepts, Applied Machine Learning, Data Science, Data Structures & Algorithms
- **Athens College High School** Athens, Greece  
*International Baccalaureate (IB) Diploma & Greek Apolytirion (GPA: 18.4/20)* 2021 – 2023
  - **Key Courses:** Computer Science, Mathematics, Economics

## EXPERIENCE

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- **DrM, Dr. Mueller AG** Zürich, Switzerland  
*Junior Software Engineer* May 2025 – Jul 2025
  - **Defect Detection Software:** Achieved a **20% improvement in defect detection accuracy** for cloth-based filtration systems through Python ML workflows (**scikit-learn, pandas, NumPy, Matplotlib**), which strengthened quality assurance and reduced inspection errors.
  - **Automation Workflow:** Delivered end-to-end process automation through pipeline design and integration, which minimized manual effort and accelerated testing cycles.
  - **Embedded Control System:** Fully developed an ESP32-based control system for the *Fundamix* industrial mixer using C++ and front-end integration, which enabled real-time monitoring and reduced calibration time for engineers.
- **Netcompany-Intrasoft** Athens, Greece  
*Junior Data Engineer Intern* Jun 2024 – Aug 2024
  - **Synthetic Data:** Introduced improved testing capabilities through design and evaluation of synthetic datasets using Scala and SQL, which enhanced robustness of data workflows.
  - **Data Engineering:** Supported large-scale processing pipelines through data transformation and validation tasks, ensuring consistency for enterprise projects.
- **Deloitte Greece** Athens, Greece  
*Intern, Portfolio Lead Advisory Services (PLAS)* Aug 2023 – Sep 2023
  - **Financial Analysis:** Managed more informed investment decisions through financial statement analysis (Income, Balance Sheet, Cash Flow), supporting advisory reports for multinational clients.

## PROJECTS

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- **Property Tycoon (Python, Pygame):** Created a playable digital board game in a **4-person team** through collaborative development of a GUI, game logic, and property management system, which demonstrated teamwork and OOP design.
- **Interpreter (Java, ANTLR):** Formed and operated the execution of a custom programming language through grammar specification and AST evaluation, which reinforced compiler theory and parsing knowledge.
- **TFTP over UDP/TCP (Python):** Accomplished standards-compliant file transfers through socket programming and protocol handling, which validated networking concepts and RFC adherence.
- **CPU Scheduling Simulator (Java):** Built discrete-event simulator in Java to compare RR, SJF, and MLFQ; analyzed turnaround and response times.

## SKILLS

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- **Languages:** Python, Java, C++, C, JavaScript, SQL
- **Libraries/Frameworks:** scikit-learn, pandas, NumPy, Matplotlib, ANTLR, Pygame
- **Tools:** Git, VS Code, PyCharm, IntelliJ IDEA, ESP-IDF
- **Languages:** English (Fluent), Greek (Native), German (Intermediate)