

Eduardo Alarcón

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I am a computer science student passionate about low-level software development, artificial intelligence, and software development. I am currently pursuing a master's degree in Computer Engineering at UC3M.

EDUCATION

University Charles III of Madrid (UC3M) September 2025 — January 2027
Master's in Computer Science Engineering - GPA 8.43/10 Madrid, Spain

University Charles III of Madrid (UC3M) September 2021 — June 2025
Bachelor's of Computer Science and Engineering - GPA 7.81/10 Madrid, Spain
• Final Thesis: Evaluating Performance and Energy Impact of Programming Languages

University of Illinois, Urbana-Champaign August 2024 — May 2025
Bachelor's of Computer Science and Engineering - Exchange Program Urbana-Champaign, IL, USA
• Relevant Coursework: Deep Learning for Computer Vision, Distributed Systems, Programming Languages & Compilers, Applied Parallel Programming.

TECHNICAL SKILLS

- **Programming Languages:** Python, C, C++, Go, JavaScript, SQL, TypeScript, Swift
- **Libraries/Frameworks:** [Data] NumPy, Pandas, Scikit-learn, Matplotlib, [DL] Pytorch; [Kernels] CUDA; [Web] React, Astro, Svelte, Tailwind CSS, NodeJS, CrowCpp; [Cloud] Docker; [VC] Git
- **Databases:** PostgreSQL, MySQL, MongoDB, ConvexDB

SOFT SKILLS

- Problem solving, teamwork, adaptability, time management, communication
- **Languages:** Spanish (native), English (C2, proficient), French (B2, intermediate)
- **Driving Licence** and immediate availability

EXPERIENCE

Personal Técnico de Investigación - Analista de Datos May 2026 — August 2026
University Charles III of Madrid (UC3M) Madrid, Spain
• Researcher in the Data, Integration and Automation section of the EITEL project.
• Development of tools for automating tasks related to data analysis (extraction, processing, cleaning, structuring and visualization).

PROJECTS

Horarios UC3M (horarios.astrak.es) September 2026 — October 2026
• Developed a web application to visualize, create and manage class schedules for the University Charles III of Madrid.
• Designed and developed an intuitive and user-friendly interface.

Locker Reservation System for Student Council (servicios-delegacion.uc3m.es) August 2023 — August 2024
• Developed a Svelte web page integrated with a backend in Go to streamline locker reservations for the Student Council.
• Built a secure API for storing reservation details and student information.
• Implemented a database with automated backups using cron jobs and authenticated API calls.
• Backend optimized to handle 700+ requests per second.

AGDownloader (github.com/Astrak00/AGDownloader) August 2024 — December 2025
• Developed a CLI application in GO to download all the files associated with a user / course in the system AulaGlobal, the main system used by the university.

EXTRACURRICULAR ACTIVITIES

- Guided freshmen during their first semester as a mentor.
- Led the Student Council's Computer Science department initiatives.
- Member of the Student Council of the University Charles III of Madrid (2020-2026)