



# Ahmed Maghri

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## Education:

B.Sc. Computer Science (CS), Constructor University Bremen, Germany (Sept 2024 – Jun 2027)

- **Minor:** Mathematics & Modeling.
- **GPA:** 1.5 (German scale, where 1.0 is the best).

## Experience:

- **Constructor University | Teacher assistant in C/C++, Math foundations of CS courses:** **Bremen, Germany | Sept 2025 – Present**  
Supported lectures and tutorials for over 350 students; guided coursework, tutorials, and evaluations; strengthened students' understanding of algorithms and programming fundamentals, as well as the mathematical concepts (Graphs, abstract algebra...).
- **Constructor Tech | Research Student Intern, AI for geometry reasoning (Sengoku):** **Bremen, Germany | Jul 2025 – Sept 2025**  
Collaborating with AI and mathematics research teams on theorem-proving automation.
  - Contributed to proof-automation pipelines (Wu's Method, Alpha Geometry).
  - Investigated symbolic reasoning and the computability of high-school geometry problems
- **GBCS Group | Lead of the fleet software dev team:** **Calgary, Canada | Jun 2025 – Aug 2025**  
Led a cross-functional team of 10 engineers to build Aukai, Orion, and Lokomotive: scalable fleet-management systems for aviation, marine, and rail sectors; developed Django REST APIs and backend architecture; coordinated integration with UI/UX and DevOps teams; improved delivery time by 20% by implementing SCRUM and agile sprints.

## Projects:

- **Muslim Students Association Website, Research and Development Unit:** **Bremen, Germany | Jun 2025 – Present**  
Built a centralized campus platform using React (Vite), Express, and Firebase for a community of **+400 users**. Integrated Stripe payments, prayer times, and event coordination. Collaborated with design and logistics teams to ensure accessibility.
- **AutoAgent: Autonomous Research & Repo Demo generator | Constructor Knowledge Lab Hackathon:** **Bremen, Germany | Nov 2025**  
Awarded **2<sup>nd</sup> place** for building an AI agent that transforms research papers and codebases into runnable demo scripts in seconds.
  - Designed a fast, modular pipeline using Constructor AI for repo understanding and LLM-driven code generation.
  - Improves onboarding and reproducibility for complex research/software projects.
- **The Qubit and Shor's algorithm:** **Bremen, Germany | Mar 2025**  
Researched quantum computing fundamentals; implemented a Shor's Algorithm simulation for integer factorization; presented findings at the Undergraduate Research Seminar 2025.

## Technical Skills

- **Programming Languages:** C, C++, Python, Kotlin, Assembly, JavaScript, HTML, CSS.
- **Frameworks:** Django, React, Express, Node.js, Vite.
- **Machine Learning & AI:** Python, including data cleaning and preprocessing, AI studio, NLP, Research.
- **Database:** SQL, MySQL, PostgreSQL, MongoDB.
- **Tools:** Git, Firebase, Stripe, Tailwind, Docker, Linux, LaTeX, Markdown, Postman, Click Up.

## Extracurricular activities:

- **President, Mathematics Society Constructor University:** **Bremen, Germany | Jul 2025 - Present**  
Managing teams across logistics, project management, design and webdev, while **leading & supervising undergraduate research** at constructor Uni in areas such as **string theory**, cosmology, and **numerical methods for neural networks**, drone irrigation optimization, LaGrange mechanics....
- **Project Management Core team, Google developers Group:** **Bremen, Germany | Mar 2025 - Present**

## Honors and Achievements:

- **MITACS-DAAD Research Scholarship (2026):** Awarded a competitive €8,500 scholarship for a funded research internship in Canada.
- **German Winter Programming contest 2025:** Top 3%
- **Google developer Group CU Ideathon 2025:** Winner.

**Languages:** Arabic (Native), Darija (Native), French (C2), English (C1), German (A2), Tamazight (Advanced).

Ahmed Maghri, Jan. 2026