

LENA CHATZIASTROS

FULL-STACK WEB DEVELOPER

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PROFILE

Certified Full-Stack Web Developer with a strong foundation in physics and diverse experience in tutoring and social media management. Proficient in modern technologies such as React, React Native, AWS, RESTful API design and test-driven development (TDD). Skilled in creating user-centered digital solutions and leveraging industry best practices. Designed a 10+ post series and interactive stories using Canva, successfully enhancing online presence. Committed to applying technical expertise to drive positive change in sustainability and society.

WEB DEVELOPMENT PROJECTS

Eventory | Progressive Web App | Careerfoundry course project

August – September 2024 | [Project demo hyperlink](#)

- Built a serverless PWA with React, AWS Lambda for the backend and authentication, and Google Calendar API for event management and display.
- Implemented test-driven development (TDD) with Jest and Cucumber with Gherkin syntax for unit and acceptance testing, and automated end-to-end testing with Puppeteer, ensuring +95% functionality and code reliability.
- Integrated Recharts for interactive data visualization and ensured offline functionality and responsive design for a seamless cross-device experience.

MovieMate | Full-Stack Web App | Careerfoundry course project

June – August 2024 | [Project demo hyperlink](#)

- Developed a RESTful API using Node.js, Express, MongoDB, and Mongoose, to support secure CRUD operations and user authentication with JWT.
- Tested endpoints with Postman, ensuring reliable and secure API interactions.
- Built a responsive, single-page frontend using React and React Bootstrap, allowing users to register/log in, view movie information, manage a list of favorites, and update or delete their account, creating an interactive user experience.

See more projects on my [portfolio site](#)

WORK EXPERIENCE

Teaching Intern | Open University of Tanzania | Dar Es Salaam, TZ

July – September 2023

- Promoted STEM education for young girls by co-hosting an interactive Astronomy Day for 200+ students, sparking curiosity in science, through Q&A sessions and hands-on telescope-building workshops.
- Supported teacher development across Tanzania, by creating custom presentation materials and presenting astronomy research to 30+ teachers in training workshops, enhancing their subject knowledge about planet formation.

Tutor | Private tutoring lessons | Online

September 2022 - July 2023

- Elevated academic performance for three students through 6+ hours of weekly online tutoring; created personalized lesson plans targeting specific weaknesses, enabling them to pass previously failed exams, achieve substantial grade improvements, and build academic self-confidence.

Social Media Manager | IAESTE Heidelberg | Volunteer Work

July 2022 - March 2023

- Enhanced the social media presence of the student organization IAESTE Heidelberg by developing a targeted strategy and creating a branded series of 10+ social media posts using Canva, featuring student testimonials, inspiring new applicants and driving significant engagement through interactive story posts.
- Built trust and visibility by creating story highlights to introduce the IAESTE Heidelberg team, offering a personal connection to the organization and showcasing team members to potential applicants.

EDUCATION

Certified Full-Stack Web Developer |

Careerfoundry | Online

May – November 2024

- 500+ hours of intensive project-focused training, supported by industry leading mentors
- Hyperlink: <https://careerfoundry.com/>

Bachelor of Science in Physics |

University of Heidelberg

October 2018 – December 2022

- Gained proficiency in Python, using NumPy, Pandas, and Matplotlib for data manipulation and visualization.

Scientific publication | Astronomy &

Astrophysics

January 2024

- L. Chatziastros et al. (2024), A&A, 681, A52
- Conducted scientific research, including Python simulations, with findings presented in reports and presentations.

WEB DEVELOPMENT SKILLS

LANGUAGES

HTML, CSS, JavaScript, TypeScript, Python

LIBRARIES & FRAMEWORKS

React, Recharts, Angular, Angular-Material, Bootstrap, jQuery, React Native, Expo, PWA

BACKEND & DATABASES

NodeJS, Express, MongoDB, Firebase, AWS, Render, Netlify, RESTful API

TOOLS & PLATFORMS

Git, GitHub, SCRUM, Canva, Figma

TESTING & DOCUMENTING

Postman, Jest, Cucumber, TypeDoc, TDD, Chrome Dev Tools, XCode

LANGUAGES

- German (native)
- English (C1)
- Greek (basic knowledge)
- French (basic knowledge)