Anton Achhammer

Curriculum Vitae

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Education

Mar. 2021 – Mar. 2023   **M.Sc in Computer Science**, *Technical University of Applied Sciences*, Regensburg, Germany
Main courses: distributed computing, artificial intelligence, modern theoretical computer science, modern database concepts, modern software techniques.
Skills: NoSQL, Python, JavaScript, LATEX.
Project contributions: „Waste Management: Route optimization for waste disposal" - recording of garbage can filling levels and optimization of the route, „Car charging station app".
Student research paper: „Vertical Farming: How can AI and ML optimize plant growth".
Thesis: „Design and implementation of a health score for calves" using sensor technology and AI.

Oct. 2017 – Mar. 2021   **B.Sc in Computer Science**, *Technical University of Applied Sciences*, Regensburg, Germany
Main courses: software engineering, innovation management, business administration, IoT, design thinking.
Skills: C, Java, HTML, CSS, JavaScript, Matlab, SQL, Assembler, LATEX.
Thesis: „Conception and implementation of a visualization of automated warehouse systems".

Sep. 2009 – Jun. 2017   **Allgemeine Hochschulreife (A levels)**, *Albertus Magnus Gymnasium (grammar school)*, Regensburg, Germany
Main subjects: mathematics, computer science, english.
Skills: Java, HTML, Assembler, SQL.
Voluntary activities: member of the school's medical service, member of the school's technology team, tutor in the prevention projects „Netzgänger" and „AMG against cyberbulling", mentoring tutor.

Work Experience

Mar. 2024 – today   **Lecturer**, *Technical University of Applied Sciences*, Regensburg, Germany
Lectures and supervision of project work for students on the bachelor's degree program in Renewable Energy Technology and Energy Efficiency on the topic of „Sustainable energy system modeling using PyPSA".

May. 2023 – today   **Research Assistant**, *Research Center for Energy Networks and Energy Storage (FENES)*, Regensburg, Germany
Modelling and development of low carbon energy systems with focus on sector coupling and energy storage, Deputy project manager in the „H2Global meets Africa" project, Supervision of student assistants, Supervision of students during the preparation of their final thesis, Budget planning with CEUS.
Skills: Python, PyPSA, LATEX, CEUS.

Jan. 2025 – Mar. 2025   **Guest researcher**, *University of Oxford*, Oxford, United Kingdom
Research on open energy system modelling
Skills: Python, PyPSA.

Sep. 2024 – Oct. 2024	**Guest researcher**, *Council for Scientific and Industrial Research (CSIR)*, Pretoria, South Africa Research on open energy system modelling Skills: Python, PyPSA.
Apr. 2022 – Sep. 2022	**Thesis Student**, *Futuro Farming GmbH*, Regensburg, Germany Reading of movement data via sensors - prediction of diseases via AI. Skills: Python, AWS, Pandas.
Aug. 2019 – Feb. 2023	**Intern, Working Student, Thesis Student**, *TGW Software Services GmbH*, Regensburg, Germany Working in the fields of software development and project management. Agile software development with Scrum and JIRA, Effort estimates for extensions, Specification of change requests, Project management, Participation in knowledge transfer via Confluence, Execution of software tests, Processing of bug tickets. Skills: Java, SQL, LATEX.
Jul. 2014 – Jul. 2014	**Intern**, *Continental Automotive*, Regensburg, Germany Skills: C#, SQL.

Voluntary activities

Okt. 2023 – today	**Volunteer**, *Scientists for Future*, Regensburg, Germany Support of the local group in Regensburg.
Okt. 2023 – today	**Volunteer**, *Viva con Agua*, Regensburg, Germany Support of various charity and educational campaigns of the local group in Regensburg.
Okt. 2023 – today	**Volunteer**, *Ratisbona Coding*, Regensburg, Germany Support of various educational events.
Dez. 2022 – today	**IT representative**, *Freiwillige Feuerwehr Pettendorf*, Pettendorf, Germany
Nov. 2021 – today	**IT representative**, *TSV Adlersberg*, Pettendorf, Germany
Nov. 2020 – today	**Webmaster**, *FC Pielenhofen Adlersberg*, Pettendorf, Germany
Dez. 2011 – today	**Firefighter**, *Freiwillige Feuerwehr Pettendorf*, Pettendorf, Germany

Scholarship and awards

Sep. 2025	**BayFor WKS Bavaria-Africa Mobility Grant** Scholarship granted for my research trip to East Africa.
Jun. 2025	**Sparkassen Sustainability Award** Award for particularly sustainable behavior, granted for my work on educational materials for open-source energy models
Jan. 2025	**Erasmus+ scholarship** Scholarship granted for my research visit at the University of Oxford.

Dec. 2024	**First place at the Berlin Science Slam**
	Science Slam about the topic „Socially and climate-friendly hydrogen production".
Oct. 2024	**Finalist at the West German Science Slam Championships**
	Science Slam about the topic „Socially and climate-friendly hydrogen production".
Jul. 2024	**Future energy labs (FEL) scholarship of the German Energy Agency (dena)**
	Scholarship granted for my research trip to Southern Africa.
Jun. 2024	**First place at the Regensburg Science Slam**
	Science Slam about the topic „Socially and climate-friendly hydrogen production".

Skills

Programming languages	**Python (excellent), Java (excellent), SQL (excellent), C# (very good), C (very good), JavaScript (good)**
	Profound knowledge in energy system modelling languages.
Languages	**German (native), English (C1), Latin (intermediate Latin certificate)**
	Fluent in German and English.
Applications	**Microsoft Office (excellent), LATEX(very good)**
	Excellent knowledge in Microsoft Office applications and LATEX for publications.