

Piet Vinnbruck

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Education

Master of Science, Information Systems - <i>University of Münster</i> <ul style="list-style-type: none">Current GPA: 1.2Specializing in Software Engineering and Data Science, with a focus on Machine Learning.Expected Graduation: October 2026	Apr. 2024 - Present <i>Münster, Germany</i>
Bachelor of Science, Information Systems - <i>University of Münster</i> <ul style="list-style-type: none">Graduated as top student of the Winter Semester 2023/24 class with a GPA of 1.7.Completed an exchange semester at Griffith University, Australia.Thesis: <i>Categorization of Affordances for Sustainable Practices</i> – later co-authored a research paper based on this work, submitted to the 31st European Conference on Information Systems (ECIS 2024).	Oct. 2020 – Mar. 2024 <i>Münster, Germany</i>
Training for IT-Systems Management Assistant - <i>HKS Informatik GmbH</i> <ul style="list-style-type: none">Final Project: Designed and implemented an automated data transmission workflow using Python & Nextcloud, improving efficiency and reducing manual workload.	Sep. 2017 – Jan. 2020 <i>Moers, Germany</i>
A Levels - <i>Julius Stursberg Gymnasium</i> <ul style="list-style-type: none">GPA: 1.9	Jun. 2015 – Mar. 2017 <i>Neukirchen-Vluyn, Germany</i>

Experience

Self-Employed - <i>Software Developer</i> <ul style="list-style-type: none">Developed a web app automation for a leading logistics company.	Oct. 2024 - Present <i>Münster, Germany</i>
SAP SE - <i>Working Student Data Center Management</i> <ul style="list-style-type: none">Integrated data and performed analysis of relevant cost metrics in data center management.Collaborated with cross-functional teams to enhance data integration strategies.	Jan. 2024 – Jun. 2024 <i>St. Leon Rot, Germany</i>
Deloitte Touche Tohmatsu Limited - <i>Internship in Technology Audit</i> <ul style="list-style-type: none">Conducted IT security risk assessments and workflow audits for a DAX-listed pharmaceutical company.	Mar. 2023 – Jun. 2023 <i>Düsseldorf, Germany</i>
zeb GmbH - <i>Working Student in IT-Development</i> <ul style="list-style-type: none">Developed internal software with Java and JavaScript.Enhanced technical documentation to improve team efficiency and software quality.	Apr. 2022 – Oct. 2022 <i>Münster, Germany</i>
univativ GmbH - <i>IT-Support (Westfälische Provinzial Versicherung AG)</i> <ul style="list-style-type: none">Provided technical support for employees, troubleshooting hardware and software issues.	Jun. 2020 – Oct. 2020 <i>Münster, Germany</i>

Projects and Courses

DiveFinder: Scuba Diving Recommendation System <ul style="list-style-type: none">Developed a web-based recommender system that suggests dive sites based on user preferences and interactions.Data Fusion of 4,395 dive sites from PADI.com with marine life data from GBIF.org using KDTree Algorithm.Implemented Content-Based-Filtering to provide personalized dive recommendations, optimizing sparse user data.	Winter 2024/25
Automation of CO₂ Calculation for a Leading Logistics Company <ul style="list-style-type: none">Developed a Flask-based backend for automated CO₂ emission calculations in freight transport.Designed and optimized a MySQL database for efficient data storage and retrieval.Built and tested REST APIs for seamless integration with a streamlit-based web-dashboard.Deployed and managed the application in a Docker environment for scalability and efficiency.	Winter 2024/25
Face Recognition with a Siamese CNN <ul style="list-style-type: none">Developed a lightweight Siamese CNN (<200K parameters) for facial verification, implemented in PyTorch and optimized with Optuna.Trained on synthetic face data with Contrastive Loss and Triplet Loss, comparing their effectiveness on the LFW-Cropped dataset.Designed end-to-end pipelines for data augmentation, model training, and evaluation in Jupyter Notebooks.	Summer 2024
Development of a GUI for an Epidemic Modeling App <ul style="list-style-type: none">Designed and implemented a web-based GUI for configuring epidemic simulations, enabling intuitive TOML file generation.Developed with Angular, TypeScript, HTML/CSS, and integrated with a MongoDB database to manage configuration data.	Summer 2023
Computer and Data Science Lecture Courses (University of Münster): <ul style="list-style-type: none">Attended: Data Structures and Algorithms, Software Engineering, Programming, Computer Structures and Operating Systems, Data Analysis and Simulation, Data and Probability, Mathematics for Information Systems, Operations Research, Introduction to Computer Graphics, Advanced Concepts of Software Engineering, Data Integration, Logic Specification and Programming, Data Analytics I/II	2020 – Present

Skills

Languages	German (native), English (fluent), French (B2)
Development	Python, Java, R, SQL, MS Office, COBOL, HTML/CSS/JS, TCP/IP, REST, Linux, Angular, Flask, Docker, Git, Pytest
Data Science	Pandas, NumPy, TensorFlow, PyTorch, Jupyter, Matplotlib