

Berke Derin Berktaş

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Skills

Languages: Python, R, SQL, Java, C, C++, C#, Bash, Power BI

Technologies: Git, VSCode, React, Django Rest, AWS, Linux, Unity3D, LaTeX, QlikSense, Excel

Experience

Database & Cloud Engineer Intern at Vosyn Jan 2024 - Apr 2024, Toronto

- Contributed towards development of AI chatbot, focusing on prompt engineering for user-aligned interactions.
- Maintained backend server API development using Django Rest Framework and AWS.

Data Science Intern at Arcelik Sep 2022 - Dec 2022, Istanbul

- Advanced data visualization and manipulation projects on Qlik, which led to a 30% increase in efficiency for data-driven decision-making processes of the branch's sales team.
- Designed and executed a predictive model for customer behavior, with feature engineering that was pivotal in retaining approximately 500 clients monthly.
- Improved sales forecasting models using time-series analysis, resulting in a 15% increase in prediction accuracy.

Software Engineering Intern at eKare Inc. Apr 2022 - Sep 2022, Remote

- Developed an OpenCV C machine learning software for automated wound detection, resulting in a 10% reduction in diagnostic times during surgical operations across several US hospitals.
- Played a key role in both front-end and back-end development for the company website using React and Django, enhancing user experience and contributing to an uptick in monthly user sessions by over 2,000 visits.

Software Engineer Intern at Xtinge Jan 2022 - Apr 2022, Istanbul

- Developed augmented reality games on both Android and iOS platforms with Unity 3D.
- Created an in-game analytics feature using C# and Unity Analytics, providing engagement data that improved user retention strategies by 5%.

Software Engineer Intern at InterTech Jun 2021 - Sep 2021, Istanbul

- Used Jira and Jenkins to enhance financial data systems and trading platforms, which resulted in a 15% decrease in system latency.
- Automated risk assessment processes for trading activities with Java, reducing the time spent on assessments.

Education

Candidate for MSc in Human-Centred Data Science at University of Toronto Sep 2023- Apr 2025(expected)
CGPA: 3.93 Toronto, ON

MSc in Computer Science at Albert-Ludwigs-Universität Freiburg Apr 2024-Sep 2024
Freiburg im Breisgau, Germany

BSc in Computer Engineering and BSc in Industrial Engineering (DM) at Koc University Sep 2019 - Jun 2023
CGPA: 3.21 Istanbul, Turkey

Selected Projects

StudySmartBot 2024

- Created a ReactJS application connecting to Youtube API and WebSockets, to sync watching videos and music together. Also includes an AI chat bot for students to help study.
- Utilized React, Git, NoSQL, JSON, JS, CSS, HTML and a basic knowledge of AI integration.

Employee Promotion Prediction Model 2023

- Built a Decision Tree classification model to predict whether the employee should get a promotion or not with the accuracy of 89% in python (pandas, o seaborn, matplotlib, numpy, scikit-learn, pickle, and SMOTE)
- Performed cross-validation and optimized models to reduce misclassification errors to less than 11%
- Performed data imputation, data scaling, and normalization to handle over 50K historical employee records.