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ÇAĞRI CAN SARAÇAYDIN

EXPERIENCE

R&D Software Engineer, Intern **Bosch Turkey** **Summer 2024**
Summer School Intern Program

- Led the development of a Python-based data analysis application: Improved process performance by 90%, handling 50 times more data than previous methods.

- Utilized Matplotlib and Plotly for data visualization: Created interactive and detailed graphical representation that enhanced the clarity and accuracy of analysis.

- Collaborated with cross-functional teams to integrate the application into existing systems: Streamlined data analysis workflows, significantly boosting efficiency across the engineering department.

EDUCATION

Istanbul, Turkey **Sabanci University** **Fall 2021 – Spring 2026**

- B.S.E. in Computer Science and Engineering. Current GPA: 3.41.

- Key Coursework: Mobile Application Development, Software Engineering, Database Systems, Logic & Digital System Design, Data Structures, Introduction to Data Science, Advanced Programming.

TECHNICAL EXPERIENCE

Projects

- **Data Analysis Application** (2024). Designed and developed a Python-based data analysis application to visualize and compare modified nozzle spray holes. Enhanced data analysis process performance by 90% while managing 50 times more data compared to previous methods. Python, Pandas, Numpy, Plotly, Pyqt6.

- **Full Stack Mobile Application** (2024). Created a mobile application for music discovery incorporating features such as commenting and rating. Improved database performance by 20%, ensuring faster and more reliable data access and storage. *Java, Spring Boot, MongoDB, Android SDK.*

- **Data Analysis of Commodity Market** (2024). Conducted comprehensive analysis of market data from 2019 to 2024, developing machine learning models for commodity price prediction. Achieved a 33% improvement in prediction accuracy for Decision Tree. *Python, Pandas, Scikit-learn, Matplotlib, Seaborn.*

- **Search Engine Optimization** (2023). Implemented advanced data structures to optimize search engine performance. Improved query performance by 150% through the development and evaluation of optimized sorting algorithms. *C++, Binary Search Tree, Hash Table, Sorting Algorithms.*

ACHIEVEMENTS

- Certificate from Harvard University's CS50: Introduction to Computer Science (2024).
- Certificate from BAT Turkey: Leadership School (2024).
- Dean's High List Honor (2023) for academic excellence.

TECHNICAL SKILLS

- Turkish (Native), English (Advance).
- C++, Python, Java, SQL, Pandas, Numpy, Sklearn, Android SDK, Spring Boot, Pyqt6, Matplotlib, Plotly.
- Excel, Visual Studio Code, Visual Studio, Clion, Xcode, IntelliJ, Git/GitHub, MongoDB.
- Object-Oriented Programming, Data Structures and Algorithms, Machine Learning, Backend-Development, Data Analysis, Database Systems, Graphical User Interface, Agile methodologies.