

METE ALP POTUK

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EDUCATION

Istanbul Technical University | *BSc Computer Engineering* **2019 – 2024**

- Relevant Courses: Learning From Data, Artificial Intelligence, Object-Oriented Modeling and Design, Data Structures and Algorithms, Secure Programming.

TOFAŞ Science High School **2015 – 2019**

- Focused on advanced sciences and mathematics, preparing for a rigorous academic career in engineering.

EXPERIENCE

Bosch Manufacturing Solutions **Oct 2022 – Sept 2024**

Software Development Engineer - Smart Start Intern **Bursa, Turkey**

- Contributed to **web application development** within a cross-functional team, focusing on delivering high-quality solutions for manufacturing systems.
- Implemented innovative front-end features using **Angular** and enhanced back-end functionalities with **.NET Core Entity Framework**.
- Collaborated closely with product and design teams to refine software specifications, translating them into optimized **SQL** queries and database structures in **MSSQL**, ensuring efficient data management and seamless integration into the overall system architecture.

TÜBİTAK BİLGEM **Nov 2021 – Jun 2022**

STAR Research Program Intern **Kocaeli, Turkey**

- Engaged in research and development focused on **smart card operating systems** within the STAR Internship Program.
- Developed **public key infrastructure** solutions and implemented **communication protocols for smart card interactions**.
- Performed **Android** implementation of smart card infrastructure, enhancing mobile integration using **Java**.

PROJECTS

Graduation Project: AMUSE | [GitHub Link](#) **2024**

- Tech used: Python, Pytorch, HuggingFace
- Developed a music **generative AI** utilizing deep learning to produce high quality music. Implemented advanced **neural networks**, including variational autoencoders and diffusion models, to analyze and generate musical compositions, boosting creativity and efficiency in music production.

SKILLS

Technical Python, C#, TypeScript, JavaScript, SQL, Angular, .NET Core

Language English (Fluent), Turkish (Native)

Tools GIT, Github, Azure, Postman, Google Colab, L^AT_EX