

Bedirhan Örseloğlu · Software Engineer | AI & Fullstack

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ABOUT ME

Junior Software Engineer focused on AI-driven applications and fullstack development. Experienced in building real-world projects using Python, FastAPI, React, and modern web technologies. Passionate about applying machine learning and generative AI to solve practical problems. Seeking to grow in AI-focused and scalable software systems.

EXPERIENCE

Software Engineering Intern — Monilas IT

July 2024 - September 2024

- Developed a full-stack bookstore web application using React, Node.js, and MySQL, implementing core features such as product listing and user interaction
 - Designed responsive UI components to improve usability across different devices
 - Built and integrated backend APIs, enabling efficient data flow between frontend and database
 - Collaborated using Git-based workflows, gaining experience in team-based development processes
 - Delivered a complete fullstack application from development to deployment, gaining practical experience in real-world software development
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PROJECTS

Marathon — AI-Powered Productivity Platform (Top 7 Finalist, Google AI Academy)

- Developed an AI-powered learning platform to improve focus and productivity for ADHD students using generative AI and personalized workflows
- Built scalable backend services with FastAPI and integrated Gemini API for dynamic content generation and user-specific recommendations
- Implemented AI-driven personalization to adapt study plans based on user behavior and attention patterns
- Designed and contributed to a fullstack architecture (React + Python), enabling real-time interaction and progress tracking
- Processed user interaction data to enhance engagement, task tracking, and performance analytics
- Collaborated in an agile team using Scrum methodology, contributing to backend development and database design
- Selected among the Top 7 projects and presented to the Google AI Academy jury

DreamClass — AI-Based Educational Platform

- Developed an AI-powered educational platform that generates personalized learning content using generative AI
- Integrated Google Gemini API to dynamically create story-based lessons, quizzes, and interactive study materials
- Designed a flexible system to adapt content based on user preferences and learning needs
- Built a fullstack architecture to support real-time content generation and user interaction
- Implemented automated quiz generation and content personalization to enhance student engagement
- Focused on creating an interactive and scalable learning experience through AI-driven features

GNSS-Based Position Optimization (TÜBİTAK 2209/A Supported Graduation Project)

- Developed a hybrid positioning system combining Kalman Filter and LSTM to improve GNSS-based location accuracy
- Processed and analyzed ~6.7M GNSS data points from multi-device datasets across multiple real-world driving sessions
- Applied signal filtering techniques (CNR, elevation angle, multipath removal) to enhance data quality
- Implemented Weighted Least Squares (WLS) and Kalman Filter for noise reduction and state estimation
- Designed and trained an LSTM model to capture temporal dependencies in GNSS signals and improve prediction accuracy
- Achieved up to 50.3% improvement in positioning accuracy compared to baseline GPS systems

SKILLS

- Languages: Python, JavaScript, C#
- Backend: FastAPI, Node.js
- Frontend: React
- AI/ML: NumPy, Pandas, Scikit-learn, TensorFlow, PyTorch
- Databases: MySQL, MSSQL
- Tools: Git, Google Cloud, Firebase

LANGUAGES

English — B1
Turkish — Native

EDUCATION

Bandırma Onyedi Eylül University
Bachelor's Degree · Software Engineering

- Grade Point Average: 3.67 / 4.00

January 2022 – January 2026

Ege University
Bachelor's Degree · Bioengineering

September 2021 – January 2022

- The one-term English preparatory course has been successfully completed.

CERTIFICATIONS

Google Project Management Professional Certificate | Google (2025)

- Comprehensive training covering Agile Management, Project Planning, and Execution.

AI & Technology Academy Graduate | Yapay Zeka ve Teknoloji Akademisi (2025)

- Successfully completed bootcamp focusing on web development and artificial intelligence.

Data Science & Machine Learning Training Series | Turkcell Geleceği Yazarlar (2023 - 2025)

- Extensive series covering Data Manipulation (Pandas, Numpy), Machine Learning (CRISP-DM), and Deep Learning (CNN, RNN, LSTM).

Note: For a complete and detailed list of my 30+ technical certifications, please visit my LinkedIn profile.