Mohamed Bakour

Software Engineer

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EDUCATION

Istinye University | *Bachelor's Degree in Software Engineering*   *Istanbul, Türkiye* | **2022 – 2026**

- Current Cumulative GPA: **3.50 / 4.00**
- Course Work: Software Architecture, Object-Oriented Programming, Web Programming, Machine Learning
  Software Project Management, Database Management Systems, Introduction to LLMs

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SKILLS

Programming Languages: JavaScript, TypeScript, Python, SQL
Frameworks: React.js, Next.js, Vue.js, Node.js, Express.js, Nest.js, React Native, AI/ML
Databases: MongoDB, PostgreSQL
Cloud & CI/CD: AWS, Git, GitHub, Vercel
Professional Skills: Collaboration and Teamwork, Project and Time Management, Communication Skills
Spoken Languages: English (C1)   Arabic (Native)   Turkish (A2)

CERTIFICATIONS

- **MongoDB Node.js Developer Path**   *MongoDB University* | **2023**

ACTIVITIES

- **Participated in "The Leadership Hackathon" in**   *Istanbul, Türkiye* | **2025**
  İbn Haldun University and achieved the first place

PROJECTS

- AI-Powered Smart Wound Dressing with Real-Time Monitoring   GitHub | Demo
  - Applied machine learning to train models on medical datasets with Scikit-Learn, achieving over 80% accuracy
  - Integrated generative AI and LLMs using Google Gemini API to generate patient analysis
  - Exposed models with Flask and built a Vue.js + TypeScript web interface for real-time monitoring
- Real-Estate Platform Web App   GitHub | Demo
  - Built a full-stack property listing platform using the MERN stack and TypeScript
  - Designed the UI in Figma and built it with React and Tailwind CSS
  - Developed a REST API with Express, integrating authentication, filtering, and file uploads on AWS S3
- Social Media Reels Web App   GitHub | Demo
  - Created a social media platform for short videos using React, Express, Node, and MongoDB
  - Built a REST API with Express, handling authentication, email verification, and infinite scrolling
  - Stored user data in MongoDB and video files on AWS S3 for efficient media management
- Node.js Library for Creating Filesystem JSON Databases   GitHub | Demo
  - Developed and published a Node.js NPM package for creating filesystem JSON-based databases
  - Implemented database operations with OOP, enabling CRUD and advanced query functionalities
  - Explored NPM publishing, making the library accessible for developers
- Course Ranking System using PFS-CIMAS-ARTASI Multi-Criteria Decision-Making Model   GitHub | Demo
  - Collaborated with a team of 4 engineering students in building an MCDM based course ranking system
  - Collected data from 12 experts of varying importance levels such as university professors and IT specialists
  - Developed a software program in TypeScript for Picture-Fuzzy-Set based CIMAS-ARTASI decision model
  - Built a user-interface with React.js, Tailwind CSS, and Chart.js to interact with users and display results

More projects and demos available on my portfolio: bakour.dev