

TAHA ELHARIRI

FULL STACK DEVELOPER & AI DEVELOPER SPECIALIST

KARABUK, TÜRKIYE

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WORK EXPERIENCE

Full Stack Developer

AI-Mashhad AI-Aneeq Company

01/2025 – 06/2025

Dubai, UAE

- Architected and launched a comprehensive business management system for customer relations, employee scheduling, and appointment booking, improving operational efficiency by 25%.
- Engineered responsive front-end interfaces using React and Next.js, resulting in a 40% improvement in user engagement metrics.
- Built and deployed cross-platform mobile applications using Flutter and Java, expanding market reach to mobile users.
- Designed and managed robust databases with PostgreSQL and MySQL on Supabase, ensuring 99.9% uptime and data integrity.

Team Manager

Tech Entrepreneurs Community

12/2024 - Present

Karabuk, Türkiye

- Spearheaded project development for multiple teams participating in the national Techno Fest competition, providing technical mentorship and strategic guidance.
- Developed and implemented project roadmaps, leading to the successful delivery of three innovative prototypes for competition entry.

Full Stack Developer (Contract)

Next Graft Company

10/2024 - 06/2025

Dubai, UAE

- Engineered a generative AI tool for visualizing hair transplant results, which increased qualified leads by 30% and boosted client conversion rates by 15%.
- Developed and fine-tuned custom generative AI models using Python, TensorFlow, and Docker, deployed on Azure and Google Cloud.
- Implemented RESTful APIs with Flask to seamlessly connect AI models with a Next.js front-end, serving hundreds of user requests per day.

Mobile Application Developer

MesLife Company

06/2024 - 10/2024

Stockholm, Sweden

- Developed a high-performance, TikTok-style social media application with real-time voice/video chat features using Java and Android Studio.
- Engineered the backend infrastructure and APIs using Next.js and Python Flask to support thousands of concurrent users.

Full Stack Developer

Armatix Company

10/2019 - 06/2024

Dubai, UAE

- Architected and deployed an NLP-powered chatbot that automated 40% of customer service inquiries, reducing average response time by 60%.
- Built and maintained a machine learning-based recommendation engine that increased user click-through rates by 20%.
- Led the development of full-stack e-commerce solutions using React/Next.js for the frontend and Flask for the backend, processing thousands of transactions daily.

Backend Developer & Data Analyst (Part-time)

AlgoTrade Company

03/2021 - 10/2022

Ottawa, Canada

- Designed and trained AI models to predict stock price fluctuations, achieving over 75% accuracy in back-testing scenarios.
- Automated trading strategies by developing a robust backend system using Python and Flask.

TEACHING & MENTORSHIP

Instructor

Deneyap Foundation

05/2022 - Present

Karabuk, Türkiye

- Educating middle and high school students in programming fundamentals, web/mobile development, and artificial intelligence.

University Course Instructor

Nerds Academy

09/2022 - Present

Istanbul, Türkiye

- Teaching advanced courses in Python, Java, MATLAB, AI/Machine Learning, and specialized biomedical engineering subjects to university students.

Co-founder & Academic Manager

TweetCode Platform for Youth Programming Education

10/2022 – 02/2024

Karabuk, Türkiye

- Co-founded an educational platform, designed the complete programming curriculum, and managed a team of instructors to teach coding to young learners.

PROJECTS & RESEARCH

Master's Thesis

Karabuk University

05/2024

Karabuk, Türkiye

Detection of Certain Diseases and Blood Component Estimation via PPG Signal Using Artificial Intelligence

- Pioneered a method to extract over 7,730 features from PPG signals captured by smartphones for non-invasive health monitoring.
- Trained and validated AI models that achieved high accuracy in the early detection of kidney failure and blood sugar estimation.

Scientific Paper

4th International Conference on Advanced Technologies, Computer Engineering and Science (ICATCES 2025).

5/2025

Karabük, Türkiye

Automatic Feature Extraction for ECG Signals Using HCTSA and Machine Learning for Arrhythmia Classification

- Authored a paper proposing an automated method to extract over 7,700 features from ECG signals to simplify arrhythmia classification.
- The Logistic Regression model achieved 85% accuracy, demonstrating the potential to significantly streamline clinical diagnosis.

Scientific Paper

EFES INTERNATIONAL SCIENTIFIC RESEARCH AND INNOVATION CONGRESS.

10/2024

Izmir, Türkiye

Ring Size Estimation Through Hand Images

- Published at the EFES INTERNATIONAL SCIENTIFIC RESEARCH AND INNOVATION CONGRESS.
- Developed an innovative method using computer vision to measure ring size for e-commerce applications.

Guidebook for Engineers

Tech Entrepreneurs Community.

07/2025

Istanbul, Türkiye

Artificial Intelligence: Your Path to a Distinguished Project

- Authored a comprehensive guide for engineering students on applying AI theory to practice, from ideation to deployment.

Educational Book

TweetCode Platform for Youth Programming Education.

02/2024

Karabük, Türkiye

Python Programming for Youth

- Comprehensive educational book consisting of 9 levels, each containing 4 units.

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- Each unit includes 5 sections covering different learning skills (instruction, exploration, research, collaboration, and experimentation).
 - Each level contains a project distributed across units to ensure continuous learning and achieving tangible results at the end of each level.

Third Place Award

YTP Presidency For Turks Abroad And Related Communities.

12/2021

Ankara, Türkiye

Project for Extracting PPG Signals from Mobile Phone Cameras

- Third prize in the Science-Technology/Project category in the International Student Awards 2021.

VOLUNTEERING EXPERIENCE

YKS Application and Exam Prep Support for Syrian Students

YTP Presidency For Turks Abroad And Related Communities.

01/2021 - Present

Karabuk, Türkiye

- Helping new students in application and preparation for the Higher Education Institutions Exam (YKS) for Syrian students.

EDUCATION

PhD in Biomedical Engineering

Karabuk University.

10/2024 - Present

Karabuk, Türkiye

- GPA: 4.0/4.0 (Coursework complete)

Master's in Biomedical Engineering

Karabuk University.

10/2022 – 08/2024

Karabuk, Türkiye

- Graduated with High Honors (GPA: 3.93)

Bachelor's in Biomedical Engineering

Karabuk University.

07/2017 – 07/2022

Karabuk, Türkiye

- Graduated with High Honors (GPA: 3.54). Ranked 1st in department and faculty.

Bachelor's in Medical Engineering

Karabuk University.

09/2019 – 08/2022

Karabuk, Türkiye

- Graduated with High Honors (GPA: 3.62). Ranked 1st in department and faculty.

SKILLS & TECHNOLOGIES

- **Frontend:** React, Next.js, Flutter, Android (Java)
- **Backend:** Python (Flask), Node.js
- **AI & Machine Learning:** TensorFlow, OpenCV, Scikit-learn, Pandas, MATLAB
- **Databases:** PostgreSQL, MySQL, Supabase
- **Cloud & DevOps:** Google Cloud Platform (GCP), Microsoft Azure, Linux, Docker
- **Languages:** Arabic (Native), Turkish (C1+ Academic), English (B2 Professional)

