

# YUSUF ERDEM TURAN

Aspiring software developer with a strong interest in backend development, operating systems, and cybersecurity. I actively develop my own operating system (EbOS) and a Turkish-based programming language (Kedi Programming), focusing on low-level system architecture. I have hands-on experience in modern web technologies such as Laravel and Django, and I'm also passionate about computer vision and AI-based security systems. A fast learner, curious by nature, and eager to build impactful open-source projects.

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## TECHNICAL SKILLS

### Web Development

- Laravel, Django, Flask, Node.js, Tuebtu (Custom PHP Framework)
- HTML, CSS, jQuery, Bootstrap, FontAwesome
- WordPress, Tuebtu (Custom PHP Framework), FontAwesome, Responsive Modern CSS
- RESTful API, WordPress, Modern Responsive Design

### Systems & Security

- Linux administration (Kali, Arch, Debian-based distros)
- Penetration Testing, Vulnerability Assessment
- Web Application Security (OWASP Top 10, XSS, SQLi, CSRF)
- Network Security (Sniffing, MITM, port scanning, brute-force analysis)
- Server configuration and maintenance (Nginx, Apache, UFW, Fail2ban)

### Computer Vision & Artificial Intelligence

- Python with OpenCV, DeepFace
- Real-time face recognition, behavioral analysis, video surveillance
- Pre-trained model integration and AI-assisted security simulations

### Mobile Development

- React Native, Expo, AsyncStorage
- Mobile state management & persistent storage
- Platform-based component design (iOS/Android)

### Development Tools & Other Skills

- Git, GitHub, VS Code, Bash, nano/vim
  - Shell scripting, online IDE development experience
  - Leadership in open-source projects and small dev teams
  - CI/CD fundamentals and basic implementation experience
  - Documentation writing and disciplined version control workflows
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## EDUCATION

**İMMİB Erkan Avcı Vocational and Technical Anatolian High School** — Istanbul, Turkey

**Department:** Information Technologies / Software Development    **Dates:** 09/2022 – Present

- Vocational high school program with applied training in system programming, OOP, and network systems
  - Completed projects involving web and desktop application development using modern programming languages
  - Engaged in workshops and seminars on emerging technologies such as AI and cloud computing
  - Participated in team-based assignments focusing on problem-solving and algorithm design
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## PROJECTS & EXPERIENCE

### Kedi Programming Language

*Founder & Lead Developer – 2025*

- Developed an open-source scripting language written in Turkish, compiled into C
- Built a compiler architecture including lexer, parser, and C output generator
- Created a web-based online IDE with VS Code extensions and plugin support

## TuAnalytics – AI-Powered Face Recognition System

Python Developer – 2025

- Implemented real-time face recognition and identity matching using DeepFace
- Integrated camera input analysis and behavior tracking features
- Developed AI-based alert mechanisms for security scenarios

## Tuebtu – Lightweight PHP Framework

Backend Developer – 2024

- Developed a minimalistic PHP framework with routing, authentication, ORM, and admin panel
- Designed for educational use and lightweight testing, inspired by Laravel

## SEW – Music Streaming Application

Founder & Lead Developer – 2025

- Developed a cross-platform mobile music streaming app using React Native
- Implemented a secure token-based authentication system on the server side
- Designed robust access control mechanisms resistant to brute force and other common attacks
- Integrated core functionalities including music playback, user session management, and search features

## Theoretical Essay - Language Design & Compiler Architecture

Author – 2025

- Wrote a comprehensive theoretical paper (in Turkish) exploring syntax and semantics, execution architectures (Lexer, Parser, AST), and type systems.
- The document supports the foundational theory behind the Kedi Programming Language project.
- Published on: [Medium](#) | [erdemskywalker.site](http://erdemskywalker.site)

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## CERTIFICATIONS & ACHIEVEMENTS

- **Second Place – Erkan Avcı Technology Competition**  
*Awarded for developing a real-time face recognition system using AI technologies; focused on intelligent surveillance, behavior tracking, and data matching.*
- **White Hat Ethical Hacking Training**  
*Hands-on ethical hacking training covering penetration testing tools and techniques in real-world scenarios.*
- **Applied Techniques in Ethical Hacking – Participation Certificate**  
*Covered topics such as vulnerability scanning, exploit development, and secure coding practices.*
- **Network Security for Aspiring Ethical Hackers**  
*Focused on network layers, protocols, and defense strategies from an ethical hacking perspective.*
- **Kali Linux for Penetration Testing**  
*Hands-on training on penetration testing tools like Nmap, Metasploit, Burp Suite, and Wireshark using Kali Linux.*
- **Web Design Fundamentals – Participation Certificate**  
*Introduction to responsive web design, HTML/CSS fundamentals, and user interface basics.*

## LANGUAGES

- Turkish (Native)
- English (Intermediate – A2 Level)

## INTERESTS

- Open-source development and contributing to tech communities
- System architecture and web security
- Cybersecurity, digital forensics, and low-level programming
- Portfolio & Writings: Full projects, source codes, and technical essays are available at [Medium](#) | [erdemskywalker.site](http://erdemskywalker.site)