Dogan Ogut

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Full-Stack Developer | Node.js, React.js, Django

EDUCATION

University of Texas at Arlington   Arlington, TX
Computer Science, B.S.   Exp. Graduation: May 2028

EXPERIENCE & PROJECTS

Pexbo, *Warehouse Inventory Management System | Next.js, PostgreSQL*   Sep. 2025 – Current
- Developed a full-stack web application with Next.js, replacing manual Excel-based workflows; achieved **80%** faster data access and reduced error rates by **90%**.
- Managed a scalable PostgreSQL architecture enabling real-time inventory tracking; boosted employee operational efficiency by **60%**.
- Built and deployed a full-stack system for a large-scale stock warehouse, modernizing operations by eliminating outdated manual processes and delivering a scalable, automated solution adopted in daily workflows.

Outlier AI, *AI Trainer*   Oct. 2024 – Jun. 2025
- Collaborated with a multidisciplinary team to create diverse code solutions, accelerating AI development by **45%** and enhancing coding-based performance in one of the world's most advanced models.
- Led a team of **15**, organized weekly meetings to monitor progress, evaluated task efficiency, and scored tasks to ensure optimal performance.

AI Research Lab, *Full Stack Software Engineer Intern*   Oct. 2024 –Dec. 2024
- Created a platform that delivers trending and up-to-date news with a **65%** faster retrieval speed compared to manual searches, significantly enhancing user experience and access to information.
- Implemented frontend development by crafting a user-friendly interface using React.js and ensuring seamless integration with Django backend via optimized API endpoints for efficient data exchange.

Learning Management System for Speed Reading | *React.js, Node.js, MongoDB*   May 2024 – Aug. 2024
- Designed and developed a Learning Management System to improve reading speed by **200%**, especially for high school students in Turkey that are preparing for the competitive university placement exam.
- Gained expertise in Redux for state management, secure token-based authentication, and optimizing backend architecture with well-structured models, controllers, and routers.

LEADERSHIP & VOLUNTEERING

UTA RoboMasters, *Python*   Aug. 2024 – Current
- Designed and refined robotic algorithms for competitive robot races, achieving a **15%** boost in speed and agility; tackled real-world robotics challenges to build practical skills through iterative testing processes.
- Elevated robot functionality and performance through efficient coding practices and innovative solutions.

North Star Academy, *Student Mentor*   May 2024 – Current
- Mentored **5** students through structured SAT preparation sessions, resulting in an average score increase of **150** points across all participants by implementing personalized study strategies tailored to individual learning styles.
- Evaluated individual academic goals for each mentee in the U.S. university application journey, resulting in tailored guidance that contributed to over **80%** of participants gaining admission into preferred universities within one year.

TeknoFest, *Project Lead*   Jan. 2022 – Sep. 2022
- Directed the integration of 3D printing technology into prototype development processes, resulting in significant reductions in material waste by over **25%** during the production phase of embedded systems.
- Crafted and programmed custom circuit boards using C language, leading to the successful creation of a prototype that reduced response times in embedded systems by **30** milliseconds per operation.