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EDUCATION

Haliç University, Istanbul, Turkey, B.S. in Electrical and Electronics Engineering 2022 - 2027
Bayrampaşa Okyanus College Anatolian High School, Istanbul, Turkey 2018 - 2022

EXPERIENCE

Embedded Software Developer Intern - T3 Gemstone | Turkish Technology Team Foundation July 2026 – August 2026
• I conducted Wi-Fi mesh development work at the kernel and driver levels based on IEEE 802.11s standards for the T3 Gemstone O1 development board.
• I developed a hardware-accelerated KDE Plasma Wayland environment for the ARM64-based TI AM67A platform using the Mesa and PowerVR EGL/GBM/DRI stack.
• I worked on SDDM, KWin, PipeWire, KRFB, and VNC.
• Patched and optimized the remote desktop pipeline to resolve frame orientation, memory-copy, and PowerVR compatibility issues.
• By analyzing CPU and memory usage, I reduced desktop memory consumption while maintaining system stability.
• Created reproducible Debian packaging and image-building workflows using Docker, Taskfile, CI, SHA-256 verification, and SPDX SBOM generation.

Network Virtualization Intern | Türk Telekomünikasyon A.Ş. July 2025 – August 2025
• Gained in-depth knowledge of the structure, operation, and management of physical and virtual servers within telecommunications infrastructure.
• Managed Linux-based systems, including command-line operations, system monitoring, and service control.
• Gained theoretical and practical experience in server automation and efficiency-driven system management approaches.
• Analyzed and observed software used in server automation and system maintenance processes.
• Acquired detailed knowledge of virtual data center software used in telecom infrastructures.
• Performed basic management and orchestration tasks within **Nokia NADCM**, **Red Hat OpenShift**, and **Proxmox** environments.

Full Stack Developer | Freelance / Entrepreneur 2019 – June 2025
• Started as a freelance developer in 2019 and founded a personal venture under the Young Entrepreneur Program in 2022.
• Managed the full software development lifecycle (analysis, development, testing, and delivery) for clients across various industries.
• Developed high-performance, scalable web applications using **PHP, MySQL, Redis, Memcached,** and **OpenLiteSpeed**.
• Established hosting services using **AlmaLinux, cPanel & WHM,** and **VMware**, specializing in Linux server setup and optimization.
• Developed custom themes and plugins for WordPress and PHP-based projects, focusing on performance tuning.

PROJECTS

FootballRagTR - AI Innovators Internship Program | Microsoft
• Engineered a fully offline, on-device Retrieval-Augmented Generation system using Microsoft Foundry Local and the Phi-3.5 Mini Instruct model.
• Developed a Node.js backend to chunk, vectorize via TF-IDF, and locally index text documents in a SQLite database.
• Built a vector retrieval pipeline to provide accurate context to the model, preventing hallucinations and delivering grounded responses with source citations.
Tech Stack: React, Tailwind CSS, shadcn/ui, Vite, Node.js, Express, SQLite, Microsoft Foundry Local, Phi-3.5 Mini Instruct.

Ucuzaucak.net | Full Stack Development & Server Management
• Developed custom WordPress themes and plugins for a platform serving tens of thousands of daily visitors.
• Migrated project infrastructure to **AWS Lightsail** to ensure a stable and efficient production environment.
• Implemented software, database, and server-side optimizations to improve page load speeds.
• **Tech Stack:** AWS Lightsail, PHP, MySQL, OpenLiteSpeed, Redis.

RecycleX Team | AI-Based Smart Recycling (Teknofest 2026 & TUBITAK 2242)
• Responsible for the physical and infrastructural backbone of an AI-driven waste sorting project.
• Designed electronic circuits for environmental sensing and established server architectures for high-speed data processing.
• Bridged the gap between hardware and software to transform AI models into functional field products.
• **Tech Stack:** AlmaLinux, Python, PostgreSQL, FastAPI, Raspberry Pi, OpenCV.

C3Chip.com | Full Stack Development & Server Management
• Developed a custom WordPress theme from scratch for an electronic components e-commerce site.
• Built a PHP-based automated product-listing bot to accelerate inventory operations.
• Optimized MySQL queries and server performance for a database containing hundreds of thousands of products.
• **Tech Stack:** PHP, WordPress, MySQL, Memcached.

SKILLS

Programming Languages: PHP, C, C++, Assembly
Web & Frameworks: Laravel, WordPress
Databases: MySQL, Microsoft SQL Server (MSSQL)
Server & Web Tech: OpenLiteSpeed, Apache, Nginx, Redis, Memcached
DevOps & Virtualization: Kubernetes, Docker, Proxmox, Red Hat OpenShift, Nokia NADCM, VMware, Linux (AlmaLinux, Ubuntu), cPanel & WHM
Engineering Software: MATLAB, PSpice, Siemens SIMATIC, Proteus

CERTIFICATIONS

Huawei Cloud Ceritifed Developer Associate (HCCDA) – Tech Essentials **Nov 2025 – Nov 2028**
• Huawei Cloud | Credential ID: HWENDCTEDA087535

AI Innovators Internship Program - Microsoft **Aug 2026**