

Burak Aydoğmuş

Ankara, Turkey

+90 545 260 7530 — aydogmusburak28@gmail.com
burakaydogmus.com — @aydogmusburak — @burakaydogmus

PROFESSIONAL SUMMARY

Software Engineer at Wraith with practical experience in full-stack development, desktop applications, cybersecurity engineering, embedded systems, and real-time software architectures. Currently building a cross-platform Electron desktop application with a secure plugin marketplace, and an internal analytics and ERP platform for e-commerce data.

Strong background in React, Next.js, Node.js, Fastify, FastAPI, PostgreSQL, Docker, Apache Kafka, OWASP security standards, and embedded platforms including ESP32 and Raspberry Pi. Passionate about scalable backend architecture, secure software development, distributed systems, and real-time data processing.

TECHNICAL SKILLS

Programming: TypeScript, JavaScript, Python, C, C++, C#, Java, Dart

Frontend: React.js, Next.js, Vite, Tailwind CSS, HTML5, CSS3

Backend: Node.js, Fastify, Elysia, FastAPI, REST APIs, JWT Authentication, RBAC

Desktop: Electron, Cross-Platform Packaging (Windows, macOS, Linux), Auto-Update Pipelines

Databases: PostgreSQL, Drizzle ORM, MongoDB Atlas, MySQL, Supabase

DevOps: Docker, Docker Compose, Git, GitHub Actions, Linux, Vercel

Real-Time Systems: Apache Kafka, WebSockets, Webhooks, Logging Systems

Cybersecurity: OWASP Top 10, XSS, SQLi, CSRF, CORS, CSP, Rate Limiting, Secure Headers, Sandboxing

Embedded: Arduino, ESP32, Raspberry Pi, Modbus RTU, RS485, I2C, BLE

PROFESSIONAL EXPERIENCE

Wraith

Software Engineer

Aug 2026 – Present

evoX – Desktop Control Center & Plugin Marketplace

- Developing evoX, a cross-platform Electron + React desktop app for a physical stream deck device, together with its plugin marketplace; shipped 20 releases (v0.2.5 – v0.3.14).
- Built 10+ third-party integrations including OBS, Spotify, Discord, Steam, Twitch, Kick, Streamlabs, and VoiceMeeter, plus per-application audio control and audio-reactive live wallpapers.
- Engineered a tiered developer plugin platform with a sandboxed runtime for signed plugins, a capability-based permission broker, an encrypted credential vault, and a TypeScript SDK and CLI.
- Developed marketplace backend features with Fastify, TypeScript, PostgreSQL (Drizzle ORM), and S3-compatible storage, including package versioning, upload scanning, moderation workflows, and an admin console.
- Ported the app to macOS and Linux with native device access over FFI, DMG/AppImage packaging, signed auto-update feeds, and English/Turkish localization across desktop, web, and API.

Shopify Analytics & ERP Dashboard

- Developing a full-stack internal analytics and ERP dashboard for Shopify data using React, Elysia, Drizzle ORM, and PostgreSQL.
- Building sales, profitability, and inventory modules to give teams centralized, data-driven visibility into business operations.
- Designing type-safe backend APIs with Elysia and a relational data model in PostgreSQL managed through Drizzle ORM.

Mobiliz Bilgi ve İletişim Teknolojileri A.Ş

Software Engineering Intern

Aug 2025 – Sep 2025

- Developed enterprise-scale full-stack applications.
- Containerized backend services using Docker.
- Implemented real-time event streaming with Apache Kafka.
- Deployed and optimized local LLM solutions in secure environments.

Gibrin Robotics Automation Software

Software Engineering Intern

Oct 2024 – Aug 2025

- Developed embedded systems using ESP32, Arduino, and Raspberry Pi.
- Implemented Modbus RTU (RS485) master/slave communication.
- Built BLE-based wireless motor control systems.
- Developed desktop automation software using C# (.NET).
- Built Flutter mobile application for sensor monitoring.
- Performed sensor calibration, system testing, and mentored interns.

Pepteam Bilişim A.Ş

Software Engineering Intern

Jan 2025 – Feb 2025

- Developed production-ready full-stack web applications.
- Built frontend interfaces using React.js and Next.js.
- Developed backend services with Node.js.
- Integrated REST APIs and optimized application performance.
- Conducted security testing using Burp Suite.

EDUCATION

Çankaya University

Bachelor of Engineering (B.Eng.) in Software Engineering

2022 – 2026

Sırrı Yırcalı Anadolu Lisesi

2015 – 2020

ACHIEVEMENTS

- 1st Place – Erasmus+ IT-ISQS Project
- 1st Place – Çankaya University Software Engineering Planathon
- 3rd Place – HackMETU 2026 Cybersecurity Competition

LANGUAGES

Turkish – Native

English – Fluent (C1)