

Erdem Bektas

EXPERIENCE

Senior Backend Engineer | Pushouse

07/2024 - Present

- **Infrastructure as Code:** Handled the full microservices lifecycle using **Terraform** to spin up isolated VPCs, managed databases (RDS/DocumentDB), and IAM policies, removing the need for a dedicated DevOps team.
- **Kubernetes Migration:** Deployed and managed a **K3s** cluster to run multiple applications with minimal resource overhead. This shift allowed us to manage our workloads more efficiently compared to traditional setups.
- **GitOps & CI/CD:** Modernized our deployment workflow by implementing **ArgoCD**. Moving to a declarative GitOps model made our releases faster, more consistent, and much easier to roll back if needed.
- **Secret Management:** Deployed and managed a self-hosted **HashiCorp Vault** for personal and enterprise use. Secured applications by transitioning microservices to fetch credentials dynamically at runtime via AppRole (RoleID/SecretID).
- **Identity & Access Management:** Provisioned and managed **Zitadel** on Kubernetes (K3s) to act as a robust Identity Provider (IdP), centralizing authentication and managing user identities across platforms.
- **Reliable Messaging:** Built a "Zero Data Loss" messaging system using **RabbitMQ** and **Redis Sentinel** to ensure data stays synced and consistent across all microservices.
- **Technical Debt & Refactoring:** Led the effort to refactor legacy "startup-style" code into scalable, polymorphic architectures, which stabilized the system and made it easier for the team to add new features.
- **Cost Optimization:** Lowered monthly AWS bills by optimizing resource allocation and improving architecture, even as the company's traffic and data needs continued to grow aggressively.

Full Stack Engineer | Suitech Software

06/2022 - 11/2023

- Built scalable cloud architectures on AWS that combined traditional backend services with decentralized storage like **IPFS/Pinata**.
- Developed high-performance backends using **TypeScript** and **Next.js**, acting as the bridge between core game logic and various blockchain networks (Ethereum, Polygon, Solana, etc.).
- Created a secure P2E marketplace and a token swap system from scratch, managing complex state logic with **Express.js** and **Redis**.

- Managed CI/CD pipelines for both the application layer and smart contract deployments, ensuring updates were smooth across the whole ecosystem.

Full Stack Engineer | Med-Tip Medikal

03/2021 - 01/2022

- Took ownership of the entire digital setup for the 'Drlinee' brand, from initial development to long-term operational strategy.
- Built custom API integrations using **Python** and **PHP** to keep e-commerce inventory synced with logistics and external platforms in real-time.
- Wrote Python scripts to automate repetitive daily tasks and data reporting, which saved the team hours of manual work every week.

Intern | Ziraat Bank A.Ş.

07/2018 - 08/2018

- Designed and developed an internal "Daily Control System" using **ASP.NET** within the Information Technologies Department, utilized for monitoring branch activities.

EDUCATION

Computer Engineering

Kastamonu University, Turkey (2016 - 2021)

TECHNICAL SKILLS

- Programming Languages: Golang, NodeJS, JavaScript, TypeScript, Python, Solidity
- Backend: Nest.js, GoFiber(Golang), Express.js
- Frontend: React.js, Next.js
- Databases: MongoDB, PostgreSQL, MySQL, Redis (Sentinel)
- Cloud & Infrastructure: AWS, Terraform, Kubernetes(K3S)
- DevOps & Security: ArgoCD (GitOps), HashiCorp Vault, Zitadel (IAM/OIDC), Docker, RabbitMQ, CI/CD Pipelines, Infisical
- Monitoring: New Relic, Loki, Grafana, Prometheus