Abdugani Toshmukhamedov

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Profile

Software engineer with over 3 years of commercial experience, primarily working with TypeScript and Node.js to develop backend systems. Comfortable working across backend, frontend, and infrastructure.

Experience

SOFTWARE ENGINEER, ABUTECH/PROGRESS ST – 08/2022 - 07/2025

- Built an educational ERP system used by [Robbit]() and [Najot Ta'lim]()
  - designed system architecture and modeled relational database
  - implemented access control using combined RBAC and ABAC for the admin panel
  - developed core features for academic management, including assignments, exams, attendance, scoring, and scheduling
  - implemented gamification features and reward systems for students
  - developed financial modules for managing student payments and academic salaries.

- Built [Edfix]() – an online educational platform
  - developed core features for a course-based platform with modules, lessons, and streaming support
  - implemented gamification system rewarding students for engagement like watching lessons and completing homework
  - enabled interactive module-level discussions through a built-in chat system
  - developed student rating and admin-facing statistics dashboards
  - integrated payments, including installment plans, promo codes, and discounts
  - implemented role-based access control

- Proposed and led the migration to a monorepo, resulting in a ~50% overall boost in team productivity through improved collaboration, streamlined dependency management, and easier code sharing.

- Managed the backend team through code reviews, provided technical direction, and maintained code quality.

- Designed system architecture and data models.

- Managed CI/CD toolchain and introduced caching, achieving ~1.5x faster builds.

- Set up observability using OpenTelemetry with the Grafana stack, which improved system visibility and made debugging significantly easier.

SOFTWARE ENGINEER INTERN, PERFECT SYSTEM SOLUTIONS – 04/2022 - 07/2022

- Contributed to the backend development of [UCIN (KATM)]() by fixing minor bugs and implementing small improvements.

- Learned the technologies used in the existing stack and applied them in practice.

Knowledge

- Programming languages: Javascript, Typescript

- Technologies: Node.js, PostgreSQL, Mongo, Redis, RabbitMQ, OpenAPI

- Frameworks: Nest.js, Express, React, Svelte

- DevOps Tools: Linux, Git, Docker, GitLab CI, GitHub Actions

- Quality & Monitoring tools: SonarQube, OpenTelementry, Grafana

- Cloud & Infrastructure: AWS (EC2, S3, SES, Lambda, Route 53), Cloudflare (DNS, R2)

Languages

English - B2, Russian - A1, Uzbek - native