Saduakhas Olzhas

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EDUCATION

Kazakh-British Technical University   Almaty, Kazakhstan
School of Information Technology and Engineering   *Sep 2022 – June 2026*

- **Relevant Coursework:** Backend Framework Django, Web Development, Algorithms and Data Structures, Object-Oriented Programming and Designs, Statistics, Android Development

PROJECTS

Educational Courses Platform | *Django, Django REST Framework, JWT, PostgreSQL, Redis, Swagger*   Jan 2025 – Feb 2025

- Developed a comprehensive educational platform using **Django** and **Django REST Framework**, allowing students and curators to manage course progress, view course content, and track test completions.
- Implemented **JWT-based authentication** and role-based access control, ensuring secure and granular authorization for curators and students.
- Designed and exposed **RESTful API**s for course enrollment, topic management, test submissions, and student progress tracking.
- Integrated **PostgreSQL** as the primary relational database, leveraging **Django's ORM** for efficient data retrieval and management.
- Leveraged **Redis** for caching session data and test results, enhancing application performance and scalability under high load.
- Documented all API endpoints with **Swagger**, providing clear, interactive documentation and facilitating easy integration for front-end developers.
- Enforced transactional integrity with **Django's** built-in transaction management, ensuring consistent data during test submissions and topic unlocks.
- Implemented a progress notification system for curators to monitor student completion, sending real-time updates without impacting core application performance.
- Deployed the platform on a containerized environment, ensuring consistent builds and simplified maintenance.

E-Commerce Project | *Go, React, Redis, Docker, Prometheus, Grafana*   Oct 2024 – Nov 2024

- Developed a **Go**-based backend microservice to handle core e-commerce operations, including user management, product listings, and shopping cart functionality.
- Built a **React** frontend for a responsive user interface, providing an intuitive shopping experience and real-time updates on product availability.
- Integrated **Redis** for high-performance caching and session management, reducing query times and improving overall throughput.
- Containerized the entire stack using **Docker** and Docker Compose, ensuring a consistent deployment environment and simplifying scaling.
- Monitored system performance with **Prometheus**, setting up various metrics (e.g., response times, **Redis** usage) for proactive issue detection.
- Visualized real-time and historical data through **Grafana** dashboards, enabling rapid troubleshooting and insights into traffic, errors, and resource usage.
- Integrated daily currency rate updates with fallback to previous rates when current data is unavailable.
- Implemented best practices in logging and error handling across services to enhance maintainability and reliability.

United National Testing Platform | *Django, Angular, Django REST Framework, PostgreSQL, Docker*   Oct 2024 – Dec 2024

- Developed a full-stack trial test platform with a **Django** backend and an **Angular** frontend to facilitate practice exams.
- Implemented dynamic test generation by combining user-selected subjects with default subjects and randomizing subject variants.
- Designed a comprehensive data model supporting various question types (single choice, multiple choice, matching pair).
- Built **RESTful APIs** for fetching randomized tests and submitting user responses, with automated evaluation.
- Integrated rich text editors (**Django Summernote**) and utilized nested admin interfaces to streamline content management.
- Recorded test outcomes by subject and overall totals, enabling users to track performance across multiple test attempts.
- Containerized the application with **Docker** to ensure consistent deployment and scalability across environments.

TECHNICAL SKILLS

Languages: Java, Python, Go, C++, Kotlin, JavaScript, TypeScript
Frameworks: Django, Django REST, SOAP, Angular, React
Databases: PostgreSQL, Redis, MongoDB
Developer Tools: Docker, Swagger, Git, Postman, Maven, Kafka