

Adilet Toktybay

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Education

Astana IT University Sept 2023 – July 2025
MSc in Media Technologies

- **Thesis:** Creating a method of interactive multimedia stories to attract users on various media platforms

Astana IT University Sept 2019 – June 2023
BSc in Computer Science

- **Thesis:** Development of Decentralized Exchange Dapp

Experience

Fullstack Software Engineer Astana, Kazakhstan
DNS Apr 2025 – PRESENT

- Deployed and configured test, staging, and production environments, provisioned Kafka topics, and migrated the database to a dedicated server, ensuring stable and reliable system operations.
- Built an automated CI/CD pipeline with unit tests, static analysis, and PHP CS fixer, deploying code via GitLab webhooks with automatic server updates, and enforced branch policies for consistent code quality.
- Optimized a heavy Elasticsearch population script, reducing memory usage from 12 GB to 100 MB and runtime from 10 hours to 30 minutes.
- Implemented centralized logging with Graylog to improve monitoring and troubleshooting of production systems.
- Tech Stack: PHP, Yii2, SQL, PostgreSQL, JavaScript, Kafka, Redis, Memcached, Elasticsearch, Docker, Linux, Ubuntu

Fullstack Software Engineer Astana, Kazakhstan
CIT Orleu Dec 2023 – Apr 2025

- Developed an interactive analytics dashboard for the regional Department of Education, enabling real-time visualization of student performance data across schools with charts, tables, and drill-down filters.
- Optimized backend data processing to handle large datasets under strict 128 MB PHP memory limits, reducing memory usage to under 70 MB and preventing crashes during heavy computations.
- Refactored legacy codebase inherited from multiple older systems, reducing daily bug reports from 3 per day to fewer than 1 every other day and improving system stability.
- Built 10+ REST API endpoints for mobile clients, enabling seamless access to data for 50,000+ students and standardizing backend integration across platforms.
- Tech Stack: PHP, Yii2, SQL, PostgreSQL, JavaScript, jQuery, Bootstrap, Redis, REST API

Backend Software Engineer Astana, Kazakhstan
13Lab May 2024 – Sep 2024

- Implemented backend security measures, stopping frequent attacks and increasing uptime by 25%.
- Improved WebSocket stability through robust error handling, reducing downtime by 42%.
- Reduced feature release time by 20% through mentoring and code optimization.
- Refactored repository structure and file handling policies, reducing repo size by 50% and improving CI/CD pipeline performance.
- Tech Stack: PHP, Laravel, JavaScript, Node.js, Docker, WebSockets, REST API, NGINX, Linux, Ubuntu, SQL, MariaDB

Fullstack Software Engineer Astana, Kazakhstan
KAP Technology Nov 2023 – Dec 2023

- Maintained and updated legacy recruitment platform for Kazatomprom, supporting key business operations.

Backend Software Engineer

Documentolog

Astana, Kazakhstan

May 2023 – Nov 2023

- Developed backend for CVHub, an online recruitment platform for Documentolog, a BPM and e-HRM provider.

Database Engineer

ALSECO

Astana, Kazakhstan

June 2022 – Sep 2022

- Managed AISOIP, Kazakhstan's official platform for enforcement proceedings and debtor information, ensuring database stability and system support.

Publications

Toktybay, A. (2025). A quantitative analysis of vtuber mascot debuts: Effects on company revenue and brand interest. *"Qazaq Journal of Young Scientist" international scientific journal*, 3(4), 167–175.

Projects

- **English Garden:** Web app for learning English with a custom SRS system. [GitHub](#) | PHP
- **Mathbook:** Progressive web app for exploring and writing mathematical equations. [Demo](#) | JS
- **PHP Components:** Component rendering in PHP, inspired by JSX. [GitHub](#) | PHP

Certifications

- **Docker Foundations Professional Certificate** [Verify](#)
- **Microservices Foundations Professional Certificate by Kong** [Verify](#)
- **AWS Academy Graduate – AWS Academy Cloud Developing** [Verify](#)

Technical Skills

- **Backend:** PHP, Yii2, Laravel, Symfony
- **Frontend:** JavaScript, TypeScript, React, Next.js, Node.js, Preact
- **Databases & Caching:** PostgreSQL, MySQL, MongoDB, Redis, Memcached
- **DevOps & Cloud:** Docker, AWS (EC2, S3, Lambda), NGINX, Linux
- **Other:** Kafka, Elasticsearch, TailwindCSS, Bootstrap

Languages

Kazakh (Native), Russian (Native), English (Advanced – DET 140, IELTS Academic 8.0)