

ALIBI AMANZHOLOV

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EDUCATION

Nazarbayev University

Bachelor of Science in Computer Science

Aug. 2024 – May 2028

Astana, Kazakhstan

Yandex.Lyceum

Python Developer Student; Top-performing student (Ranked 57/10000+)

Sep. 2020 – Apr. 2022

Almaty, Kazakhstan

TECHNICAL SKILLS

Languages: Dart, Python, JavaScript, HTML, CSS, C/C++, SQL, Bash, GDScript.

Developer Tools: Docker, Firebase, MongoDB, RabbitMQ, Figma, Git, Github Actions, Shell, Linux.

Frameworks and Technologies: Flutter, GetX, Django, FastAPI, Flask, SQLAlchemey, Jquery, Vue.js, Nginx.

EXPERIENCE

Pillgrim Inc. | *Mobile and Backend Developer*

June 2024 - Present

- Architected a microservice-based backend, leveraging Django/FastAPI to ensure scalability.
- Orchestrated robust event-driven communication between microservices using RabbitMQ.
- Implemented a CI/CD pipeline, reducing deployment time by 50%.
- Engineered a custom WebRTC infrastructure for video calls with auto-reconnection feature.
- Developed a secure banking service on Django using “hmac” and “hashlib” libraries.
- Boosted Flutter mobile app performance and RAM usage by 40% through local caching.
- Increased the chat page’s scroll view FPS by 30%, reducing item complexity and lazy loading.

Vector Edu | *Lead Full-stack Mobile Developer*

Apr.2024 - Sep.2024

- Designed UI/UX for the app, ranked as top-18 in education on the Apple App Store.
- Optimised custom Content Management System by moving database from PostgreSQL to MongoDB.
- Designed an AI system for accurate scoring in the IELTS Speaking and Writing sections on FastAPI.
- Utilised Google AI Studio for prompt engineering and a vector database for semantic search.
- Increased user engagement (screen time) by 20% by incorporating captivating animations.
- Implemented clean code principles, leading to a 30% increase in Flutter developer productivity.

PROJECTS

Psychology App | *Flutter, Django, PostgreSQL, Voice Recognition*

July 2023

- Developed a mobile app using Flutter featuring meditation tools and calming questions to promote mental wellness.
- Implemented voice navigation using real-time voice recognition for hands-free user interaction, enhancing accessibility.
- Utilized local storage to provide instant access to app materials, improving user experience and offline functionality.
- Built a Django back-end with a custom XLSX parser to efficiently populate a relational database (PostgreSQL) with meditation questions and navigation data.
- Optimized data synchronization between the app and server by implementing a custom version control system, reducing file-checking time by 87%.

Personal Blog Website | *Flask, SQLAlchemey, SQLite, Heroku*

Apr. 2022

- Developed and deployed a dynamic blog website showcasing posts and a dedicated space for user commentary.
- Implemented user authentication system with email/password login and password recovery via email.
- Leveraged Flask framework for web development, utilizing its templating engine for dynamic content rendering.
- Optimized database interactions using SQLAlchemey for efficient data management and query execution.
- Built a responsive and user-friendly interface with HTML, CSS, JavaScript, and Bootstrap v5.
- Independently deployed and managed the application on Heroku.

RELATED COURSEWORK

Yandex.Lyceum - Basis of Industrial Programming: Gained proficiency in database management, PyQt5 for desktop application development, and web development using Django, Flask, and SQLAlchemey.

Yandex.Lyceum - Basis of Programming: Studied fundamental programming concepts in Python, such as algorithms, data structures, and object-oriented programming to solve complex programming problems.

AWARDS

Lead Engineer, AENTA Robotics Team, 1st place nationally, 3rd place worldwide - FIRST Tech Challenge 2022-2023.

Lead Programmer, IKIGAI team, Global Finalist (top 35 worldwide) - NASA Space Apps Hackathon 2022.