MAFTUNA ZIYAMOVA

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EDUCATION

Inha University in Tashkent   *September 2019 - August 2023*

Bachelor of Science in Computer Science and Software Engineering

GPA: 4.36/4.50

Member of Dean's List

Core Courses: Artificial Intelligence, Big Data Analytics, Capstone Design, Multimedia Computing

Programming Courses: Object-Oriented Programming, Application Programming in Java, Data Structure, System Programming, Internet Programming, Operating System, Database, Computer Algorithm, Unix Programming, Database Application and Design

Math Courses: Calculus, Linear Algebra, Discrete Mathematics, Engineering Mathematics, Probability and Statistics

WORK EXPERIENCE

Vention   *January 2022 - June 2023*

Software Engineer

Stack: Python, Django, Django REST Framework, Git, Docker, PostgreSQL, JIRA, Prometheus, Grafana

· Developed a backend application that is well-organized, maintainable, and understandable while following the established coding guidelines
· Created and executed unit, integration, and E2E test cases to achieve 85% test coverage
· Performed independent code reviews and provided constructive feedback and suggestions to enhance code maintainability, reliability, and performance
· Designed and implemented a comprehensive logging system to monitor the performance of the application, allowing real-time analysis
· Showed expertise in analyzing and optimizing existing features by suggesting practical and innovative improvements
· Demonstrated strong teamwork and communication skills by actively participating in daily meetings with cross-functional teams

HamkorBank   *September 2021 - December 2021*

Software Engineer

Stack: Go, gRPC, REST, Docker, Git, Jaeger, PostgreSQL, RabbitMQ, Microservices, React

· Designed and implemented highly scalable microservice-based services
· Developed, maintained, and monitored metrics for evaluating feature performance
· Created detailed test scenarios, performed unit and integration testing
· Maintained the admin portal, fixed bugs, modified the logic to meet requirements, and improved UX
· Created a set of reusable UI components
· Participated in daily meetings, analyzed user stories, identified and resolved gaps in user stories/business requirements

Tech Yard Solutions   *January 2021 - June 2021*
Software Engineer
Stack: Python, Django, Django REST Framework, FastAPI, React, PostgreSQL, Git

· Built the project's architecture from the ground up, focusing on long-term maintainability
· Implemented effective strategies to boost the application's performance
· Took charge of project management duties, including setting timelines, client interactions, and regular project status reporting
· Worked closely with clients to understand their business requirements and translated them into technical specifications
· Actively participated in daily meetings to stay aligned with the development progress and ensure efficient production control

SKILLS

Programming languages: Python, Golang, JavaScript, C/C++
Databases: PostgreSQL, MySQL, Redis
Languages: English (Advanced), Russian (Native), Uzbek (Native), Korean (Basic)
Other technologies and frameworks: Django, FastAPI, RabbitMQ, Docker, Git, NumPy, Tensorflow, OpenCV, Pandas

PROJECTS

Sog' Bo'l - Healthcare Assistant
Keywords: mobile application, computer vision, convolutional neural network, image classification
Abstract: Sog' Bo'l is an assistant in the digitalization of your health. The project was created to provide convenient storage of information about tests and medical examinations, as well as track health dynamics. It will help not only patients but also their doctors to understand the complete picture of the patient's health. Moreover, the application can process brain MRI results to detect and classify different types of tumors using EfficientNet.

Xabarchi - News Aggregator in the Uzbek Language
Keywords: recommendation system, NLP, content-based filtering, web scraping, data aggregation
Abstract: Xabarchi is a platform that allows you to receive personalized news in the Uzbek language. This application gathers news from various sources and presents them to you in a personalized news feed. It categorizes news into customized sections, ensuring that you have access to the latest updates on topics that interest you (content-based filtering). With this project, you can conveniently access all your news in one place, tailored to your specific interests and preferences.

Dubby - Real-Time YouTube Video Translation and Dubbing
Keywords: content localization, text-to-speech (TTS), real-time translation, API integration
Abstract: Dubby enables viewers worldwide to access and enjoy YouTube content in their preferred language. This innovative project provides real-time translation and dubbing for YouTube videos, opening up a world of possibilities for content creators and viewers alike. It was created using Microsoft Translator Text API and Microsoft Text-to-Speech (TTS) API services.

BeSafe - Combating Domestic Violence
Keywords: mobile application, social impact, backend development, data transformation
Abstract: BeSafe is a dedicated initiative aimed at addressing the pressing issue of domestic violence, with a particular focus on the elevated levels of such incidents in Uzbekistan. This project serves as a beacon of hope, utilizing technology and community support to raise awareness, provide resources, facilitate intervention measures, and leverage open data transformation to create effective solutions.

Autonomous Driving - Capstone Design Project

Keywords: autonomous driving, computer vision, object detection, image processing, robotics

Abstract: Autonomous driving system is the university's final project. It demonstrates lane-following capabilities while solving complex challenges such as object detection, sign recognition, and traffic light detection. The project involved designing and implementing algorithms to enable a robot to navigate from a starting position to a designated parking zone autonomously, adhering to traffic rules.

AWARDS

Winner of President Tech Award (1st place - $100 000)	*October 2023*
Winner of Open Data Challenge (2nd place)	*January 2023*
Winner of Uz-NLP Challenge (2nd place)	*December 2022*
Winner of Tumaris.Hack (3rd place)	*November 2022*
Winner of Voice AI Challenge Uzbekistan (1st place)	*December 2021*
Owner of Inha University in Tashkent Scholarship	*2019-2023*

EXTRACURRICULAR ACTIVITIES

Machine Learning Community in Uzbekistan   *September 2022 - now*
Vice-Head   *Tashkent, Uzbekistan*

· Played a key role in establishing and growing the ML Community in Uzbekistan, effectively increasing its membership and impact within the local tech ecosystem
· Collaborated with the Head of the Community to develop and execute strategic plans, setting objectives and defining initiatives to drive engagement, knowledge sharing, and professional development opportunities for members
· Organized and managed a wide range of events, including workshops, seminars, and conferences aimed at fostering collaboration, learning, and skill development among community members

Students' Union at Inha University in Tashkent   *March 2020 - October 2022*
Head of Clubs   *Tashkent, Uzbekistan*

· Established and maintained relationships with other clubs, university organizations, and external partners to enhance collaboration and opportunities
· Served as a resource and advisor to clubs' representatives, offering guidance and support in achieving their objectives
· Managed finances, including budget planning, allocation, and financial reporting

Erasmus+ Mobility Program (Help Desk)   *June 2022 - July 2022*
Intern   *Lyon, France*

· Provided timely and efficient technical support to end-users, addressing their queries, issues, and troubleshooting hardware or software problems
· Assisted in maintaining an inventory of IT assets, including tracking equipment, managing stock levels, and conducting audits
· Helped with hardware setup, maintenance, and repairs, including computers, peripherals, and mobile devices

CERTIFICATIONS

Supervised Machine Learning: Regression and Classification Course by DeepLearning.AI