Jamolkhon Akhmedov

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Languages and Technologies

Proficient: Python, JavaScript, SQL, PostgreSQL, SQLite3, Elasticsearch, Django, Git, Vim/Neovim
Prior experience: C Programming Language, NodeJS, React, MongoDB, Docker, Jenkins, Redis, Kibana

Experience

Youth Technopark, *Software Engineer* | On-site, Full-time   *September 2023 - Present*
- Building coin-based KPI system using Chart.js and MVC pattern.
- Gave presentation of our project Tokcha at the President Tech Award 2023 Finals and ranked at top 7 among over 500+ projects.
- Helping interns grow significantly by periodic code reviews, teaching clean code principles and industry best practices.
- Interacting with Project Manager and Designers to resolve architecture, and design related problems.

English with Tim, *Software Developer* | On-site, Full-time   *April 2023 - September 2023*
- Fixed integration issues with phone call recording services by making more precise API calls.
- Refactored the existing code-base and optimized the code quality and execution time by at least 3x times.
- Planned the infrastructure, designed the DB schema and created UML diagrams for the new CRM system.

Islom Karimov Izdoshlari, *Software Development Mentor* | On-site, Contract   *Aug 2022 - Present*
- Mentored more than 100 students to learn Computer Architecture, Network Fundamentals, Terminal Commands and the latest web development technologies.
- Using the best industry practices for teaching: Problem-based learning, Puzzle-based learning, Pair-programming and Game-themed programming. Combining both Bottom-up and Top-down approaches to teach as effectively as possible.
- Collaborating with parents, teachers and counselors for struggling students' academic performance.

UIC Group, *Software Developer* | On-site, Full-time   *April 2021 - June 2022*
- Improved the search performance and accuracy by up to 20x times by implementing search-as-you-type queries using Elasticsearch N-Gram and Edge N-Gram tokenizers together.
- Built Testing Platform as a part of the team, used by over 2.9 million students to prepare for International Assessments and awarded by client for delivering the project within very limited time.
- Improved the complex query Statistics API's by 90% by tapping into Django ORM capabilities.
- Augmented traditional search techniques with bucket aggregations and faceted navigation system, allowing users to narrow down search results by applying multiple filters based on faceted classification of the items.
- Used RDBMS capabilities efficiently to handle database level problems: wrote PostgreSQL Triggers (DDL, DML) for better speed performance, isolation levels and distributed architecture.
- Refactored legacy code and sped up query processing using database indexing. Reduced resource usage and prevented overload by caching expensive computations in Redis.
- Set up CI/CD pipeline with Jenkins and GitLab.
- Applied clean code principles and industry best practices. Used automated Git hook scripts (pre-commit) to identify hook issues before code review. Followed PEP 8 style guide.
- Worked with a cross-functional team in scrum consisting of Frontend / Mobile / QA Engineers and Designers.
- Contributed to the internal wiki platform by posting useful articles on various topics to help other engineers.

Projects

STesting

STesting is a testing platform to help students prepare for International Studies of Pisa, Timss and Pirls.
- Built ERP authentication system that was used by nearly 3 million school students and 8k schools to register to the platform.
- Rendered a real-time statistics that shows the test results of all registered users by using ORM annotations and aggregations.

Jobhunt

Jobhunt is an employment-oriented online service like Linkedin.
- Implemented Elasticsearch to optimize the search execution speed by at least 10x times. Reduced the search latency from over 2s to under 200ms.
- Built dynamically updating filters using faceted navigation system.

Expense Tracker

Expense tracker is a website which allows you to quickly calculate your income and expenses.
- Built Expense Tracker using core JavaScript and built-in Data Structures.
- Utilized IIFE to achieve encapsulation which has helped to prevent variable conflicts and unintended modifications of data.
- Deployed using Github Pages.

Education and Training

2024	**Ace the Python Coding Interview**, Educative learning platform - Ongoing	*Online*
2023	**Modern JavaScript (Complete guide, from Novice to Ninja)**, Udemy learning platform - 2023	*Online*
2020	**Internship**, Algorithm GateWay - 2020	*On-site, Full-time*