

Bakhrom Ergashev

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JAVA SOFTWARE DEVELOPER

Knowledgeable Software Developer with 1 year of experience building scalable, efficient, robust and user-friendly web applications through all phases of the software development life cycle, while maximizing functionality, performance, responsiveness. Proven experience in implementing best coding standards. Skilled in technologies such as Java, Spring, Hibernate, and PostgreSQL, Mongo DB, Swagger to deliver high-quality solutions that meet client needs.

Back End Development • Problem Solving • Web Services • Object Oriented Programming (OOP)
Dependency Injection • Application Programming Interface (API) • Web Development • Multithreading

Languages: Java, TypeScript

Web: HTML, CSS, JavaScript, jQuery, Bootstrap, XML, JSON, JSP, Ajax, Thyme Leaf

Web Services: REST API

Web/App Servers: Apache Tomcat

Frameworks: Angular, Express.js, Spring (Boot, Security, Data, AOP, DI), JPA, Hibernate

Databases: PostgreSQL, MongoDB, MySQL

Design Patterns: MVC, Singleton, Factory, Observer, Builder, Strategy, Proxy, DI, Decorator

SDLC: Agile / Scrum

Tools: Visual Studio, Eclipse, IntelliJ, Maven, Docker, Postman, Git, RabbitMQ, Star UML, GitHub, pgAdmin4, MySQL Workbench

Platforms: Windows, MacOS, AWS

PROFESSIONAL EXPERIENCE

CAREER NOTE: Completed on-campus studies and currently taking distance education courses to complete a **master's degree in computer science** (Available for full-time, W-2 employment).

Tashkent State University of Economics, Islom Karimov, Uzbekistan • 10/2021 – 11/2022

A university providing higher education.

Software Developer

Worked on Student Portal system.

- Developed a cutting-edge educational platform using Java, Spring Frameworks to architect robust and scalable solutions tailored for the modern learning environment.
- Engineered the backend of the portal by integrating and optimizing PostgreSQL, orchestrating seamless data management for diverse educational resources, student records, and collaborative content, ensuring lightning-fast access and retrieval.
- Initiated the implementation of pivotal features utilizing Hibernate, ensuring efficiency in ORM and database interactions, hence optimizing the platform's performance and sustainability.
- Crafted immersive and intuitive user interfaces using HTML, CSS, JavaScript, jQuery, and Bootstrap, delivering unparalleled user experience for students, instructors, and administrators.
- Forged a cohesive ecosystem by utilizing RESTful APIs, orchestrating seamless communication between various modules, leading to an interconnected and dynamic learning environment.
- Championed an Agile-driven development approach, fostering cross-functional collaboration and adaptability to swiftly respond to evolving educational demands, consistently delivering iterative enhancements that paralleled educational advancements.

Technologies Used: Java, Spring (Boot, Security, Data, AOP, DI), Hibernate, PostgreSQL, RESTful APIs, jQuery, Bootstrap, JSON, JUnit, Docker, AWS.

ACADEMIC PROJECTS

Maharishi International University (2023)

- **Library Management System:** A desktop application designed to help maintain and organize the university library to streamline resource tracking, borrowing, and administrative tasks. Led the entire software lifecycle by handling the system architecture and development phases backend/frontend. This ensured efficient development and deployment, robust data management, and an intuitive experience for library staff and users. Utilized Java, Spring Boot, MySQL, Java Swing.
- **Student Management System:** Led the creation of a Student Management System fostering teacher-student interactions. The system facilitated login/logout for both teachers and students. Teachers could grade, manage coursework, and monitor progress, while students accessed grades, assignments, and course materials. I ensured a secure authentication system and enabled efficient data storage and retrieval while prioritizing user security. Utilized JWT, EJS, Spring Boot, MySQL.
- **Medication Side Effects Review Application:** This was a team project that allowed user signup and JWT-based authentication, where authenticated users can manage their medications, add reviews, and browse medications. I contributed to implementing JWT login, building medication management components, optimizing performance, and ensuring a secure, user-friendly experience. Utilized Angular, Node.js, Express.js, MongoDB, emphasizing secure authentication and a seamless UI.
- **Automated Web Data Integration System:** Managed the development of this project which autonomously identifies and integrates web-based data sourcing APIs. I orchestrated microservices for real-time data processing and communication. Responsibilities included designing backend services, Docker orchestration, creating key components like API discovery and availability, and collaborating to the frontend Monitoring Dashboard. Utilized Spring Boot, Kafka, Docker, MySQL, React.

PERSONAL PROJECTS

E-commerce (2023)

Created a robust and secure full-stack e-commerce application. Worked on architecting the backend infrastructure, constructing APIs, and managing the database, ensuring efficient and secure communication between system layers. Implemented a fully functional shopping cart with secure credit card payment processing using Stripe API. This project expanded my proficiency in Angular and Spring Boot, showcasing full-stack expertise in a dynamic environment. Utilized Angular, Spring Boot, RESTful APIs, MySQL, Stripe API, JWT, OAuth2, OpenID Connect, SSL/TLS.

EDUCATION

Master of Science in Computer Science

(In progress via distance education; expected completion 10/2025)

Maharishi International University, Fairfield, Iowa

Key Courses: Modern Programming Practice, Web Application Development, Enterprise Architecture, Software Architecture, Web Application Development 2

Bachelor of Science in Mechanical Engineering

Turin Polytechnic University, Tashkent, Uzbekistan (09/2021)