Maksym Syniuhin

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Summary

Passionate Full-Stack Developer with over 2 years of experience in building and maintaining large-scale applications using Java, Spring Boot, Angular, and Node.js. Skilled in microservices architecture, Agile methodologies, and cloud-native development. Eager to continuously expand technical knowledge and solve challenging problems.

Technical Skills

Languages: Java, JavaScript, TypeScript, SQL, HTML, CSS
Frameworks: Spring, Spring Boot, Angular, Node.js, Express.js, NestJS
Tools: Docker, Kubernetes, Kafka, JUnit, Cucumber, Jenkins, Git, Maven, Webpack
Databases: PostgreSQL, MongoDB, Redis, MySQL
Cloud: AWS, Azure, Google Cloud Platform (GCP)
Other Skills: Microservices Architecture, REST API Development, Object-Oriented Programming, CI/CD Pipelines, Agile Methodologies, Code Review

Experience

Full-Stack Developer Jan 2022 – Present
Various Projects *Remote/Hybrid*

- Developed and maintained Java and Angular applications using Spring Boot and microservices architecture.
- Designed and implemented RESTful APIs with Node.js and Express.js for backend services, ensuring secure and scalable communication between services.
- Integrated real-time data streaming with Apache Kafka and WebSockets, allowing applications to handle high-throughput data for live updates.
- Optimized application performance through database schema optimization and implementation of Redis as an in-memory cache, reducing response times by 30%.
- Implemented CI/CD pipelines using Jenkins, Docker, and Kubernetes, automating deployment processes and reducing time-to-market.
- Developed comprehensive unit and integration tests with JUnit, Jasmine, and Cucumber, ensuring high test coverage and code reliability.
- Collaborated with cross-functional teams in Agile environments, leading sprint planning sessions, and conducting code reviews to ensure adherence to best practices.
- Mentored junior developers, providing guidance on coding standards, design patterns, and debugging techniques.

Autopilot System for Remote Controlled Boat March 2022 – April 2022
Solo Development *Warszawa, Poland*

- Designed and developed an autopilot system for a remote-controlled boat using an STM32 microcontroller and C++, with real-time navigation capabilities.
- Integrated GPS, digital compass, and remote control receiver modules for precise navigation and control.
- Developed and fine-tuned PID control algorithms for regulating speed and direction of the boat, ensuring smooth and accurate maneuverability in various conditions.
- Implemented a custom communication protocol between the boat's sensors and the controller, ensuring reliable data transmission and command execution.
- Conducted extensive testing and optimization of the autopilot system in real-world environments, achieving a 95% accuracy in reaching predefined waypoints.
- Utilized FreeRTOS for real-time task scheduling and multithreading, enabling efficient resource management and system stability.

Taxi Service Application Nov. 2023 – Dec. 2023
Solo Development *Remote*

- Developed a scalable and cloud-native taxi service application using Java, Spring Boot, and Angular, with a focus on microservices architecture.
- Designed the backend system as a set of loosely coupled microservices, each responsible for specific domains such as user management, ride management, payment processing, and notifications.
- Integrated third-party APIs such as Google Maps API for real-time location tracking, route optimization, and distance calculations.
- Implemented an event-driven architecture using Apache Kafka for real-time ride status updates, ensuring seamless communication between drivers and passengers.
- Utilized Redis for caching frequently accessed data such as user profiles and ride history, reducing database load and improving application response times.
- Deployed the application on AWS, leveraging EC2 instances, RDS for PostgreSQL databases, and S3 for object storage, achieving 99.9% uptime through auto-scaling and monitoring.
- Implemented OAuth 2.0 and JWT-based authentication for secure access control across the application.
- Developed a payment gateway integration with Stripe API, enabling users to securely process payments for their rides.

Pastebin Service July 2024 – August 2024
Solo Development *Remote*

- Designed and implemented a scalable, microservice-based Pastebin Service for storing and retrieving text snippets, using Java and Spring Boot. The system was architected to handle high volumes of traffic while maintaining reliability and performance.
- Developed a microservice architecture with independently deployable services, improving scalability and maintainability. Utilized Spring Cloud for service discovery and centralized configuration management.
- Integrated MinIO for efficient and scalable object storage, enabling secure and fast access to user-generated content. Implemented data redundancy and replication strategies to ensure data integrity and availability.
- Created a custom Hash Generation Service that generates unique identifiers for each paste, ensuring quick and collision-free access to stored snippets. This service was designed with high availability and fault tolerance in mind, using Redis for caching generated hashes.
- Utilized Redis for high-speed caching, significantly improving response times and reducing load on the PostgreSQL database, which served as the primary data store for persistent data.
- Developed an API Gateway that centralized routing, load balancing, and CORS configuration, enhancing security and simplifying client-side integration. The gateway also handled authentication and rate limiting to protect the system from abuse.
- Implemented Prometheus for comprehensive monitoring, collecting custom metrics on paste creation and access patterns. Exposed these metrics via a dedicated Metrics Service, allowing for real-time performance tracking and alerting.
- Configured Docker for containerization, ensuring consistent environments across development, testing, and production stages. Utilized Docker Compose for local development and multi-stage Dockerfiles for optimized builds.
- Built a robust CI/CD pipeline that automated the deployment process using Jenkins and Docker. Deployed the system on AWS, leveraging services like EC2, RDS for PostgreSQL, and S3 for static file storage.
- Handled cross-origin resource sharing (CORS) with fine-grained control, allowing secure and seamless interaction between the frontend application and backend services.
- Ensured maintainability and ease of management through a centralized configuration system, with environment-specific settings managed via YAML configuration files.

Project Management Dashboard May 2023 – June 2023
Solo Development *Remote*

- Built a comprehensive project management dashboard with Angular for the frontend and Node.js/NestJS for the backend, allowing teams to organize tasks, track progress, and collaborate in real-time.
- Implemented user authentication and authorization using OAuth2 and JWT, ensuring secure access control and user data privacy.
- Developed a set of RESTful APIs in Node.js, handling task management, user roles, and project data, integrating with MongoDB for scalable and flexible data storage.
- Designed a responsive and intuitive user interface in Angular, utilizing Material UI for consistent design and improved user experience.
- Set up CI/CD pipelines with Jenkins and Docker, automating testing, building, and deployment processes, resulting in faster release cycles.
- Deployed the dashboard on Azure Kubernetes Service (AKS), ensuring scalability and reliability, with Azure Blob Storage for storing project files and assets.
- Implemented real-time collaboration features using WebSockets, enabling team members to work together and see updates in real-time.
- Utilized Elasticsearch for advanced search capabilities, allowing users to quickly find tasks, documents, and conversations.

Education

im. Marcina Kasprzaka Technical School Warszawa, Poland
Programmer, Further Mathematics *Sept. 2023*

Languages

English: B2
Russian: C1
Ukrainian: C1
Polish: B2

Additional Information

Soft Skills: Team player, Adaptable, Focused on long-term cooperation
Interests: Continuous learning, Tech conferences, Open-source contributions