

Mikolaj Semeniuk

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Stack Overflow:

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Skills

- Highly proficient in participating in architectural discussions and decision-making to improve system design and functionality, collaborating with cross-functional teams to gather requirements and ensure successful project delivery.
- Highly skilled in leading technical interviews to recruit highly skilled professionals, ensuring the addition of top-tier talent and senior developers to the team.
- Skilled in creating and deploying cloud infrastructure using **Terraform** with **Kubernetes** and **AWS** provider.
- Proficient in developing and maintaining pods, replicaSets, deployments, and services in **Kubernetes** using **Helm** package manager and **ArgoCD**.
- Experienced in configuring and integrating AWS services such as OpenSearch/ElasticSearch, DynamoDB, SQS, SNS, S3, and Lambda with existing and new APIs.
- Proficient in setting up monitoring and alerting systems using
 Prometheus with Grafana and Elastic APM to track system health and performance.
- Highly skilled in benchmarking and improving the performance of existing services by leveraging advanced features such as the sync package for concurrent data handling, implementing efficient generics for reusable type-safe code, and utilizing goroutines, channels, and waitGroups for high-performance, concurrent applications.
- Proficient in implementing CI/CD pipelines in GitLab to standardize deployments, conducting thorough code reviews, and writing comprehensive unit tests.
- Skilled in implementing log aggregation and analysis with tools like the ELK (Elasticsearch, Logstash, Kibana) stack.
- Proficient in migrating legacy applications and services to a microservices architecture, and developing and maintaining RESTful and GraphQL APIs to support frontend and mobile applications.
- Strong proficiency in **Java** version **8**, with extensive experience in data structures including **Optional**, **Streams**, and **Regex** expressions.
- In-depth knowledge of Spring Framework and Spring Security.
- Advanced command of C# version 5.0, including data structures such as IEnumerable, ICollection, OneOf, LINQ, await/async, Regex, and Reflection.
- Strong knowledge of the .NET framework and Entity Framework, with proficiency in Migrations, Identity Server 4, and MassTransit.
- Extensive experience with Python version 3.7 for data analysis, predictive modeling, classification, data structuring, tagging, and generating synthetic data using Sklearn, Pytorch, Tensorflow, and Keras.
- Proficient in containerization and orchestration tools such as Docker and Kubernetes.
- Strong knowledge of **Linux** and **Bash** scripting.
- Extensive experience with frontend frameworks VueJS and AngularJS, including state management, dynamic data handling, and API integration.
- Advanced knowledge of NodeJS with Typescript, ExpressJS, NestJS, and TypeORM.
- Proficient in **Go** programming, including **Go-Gin**, **GORM**, and **GRPC**.
- Deep understanding of Clean Code principles (by Uncle Bob), SOLID principles, Domain-Driven Design (DDD), Test-Driven Development (TDD), YAGNI, DRY, KISS, and design patterns such as CQRS, CQS, MVC, and SOA.
- Advanced knowledge of relational databases including SQL Server (with expertise in SQL Queries, Stored Procedures, Triggers, and Indexes), MySQL, and PostgresSQL.
- Extensive experience with non-relational databases such as **MongoDB**, **Redis**, and basic knowledge of **Apache Cassandra**.
- Skilled in writing unit tests and using the **Selenium** framework for automated testing.
- Fluent in English, with strong communication skills.
- Proficient in development environments such as Visual Studio, Intellij, Visual Studio Code, Google Colab, Jupyter Notebook, and Conda.

Certificates















Experience

Limango (Senior Golang Developer and DevOps Engineer)

2022.01 -Present

- Participated in architectural discussions and decision-making to improve system design and functionality with cross-functional teams to gather requirements and ensure successful project delivery.
- Led technical interviews to ensure the addition of highly skilled professionals to the team and recruited other senior developers.
- Created and deployed cloud infrastructure using Terraform with Kubernetes and AWS provider.
- Developed and maintained pods, replicaSets, deployments, and services in **Kubernetes** using **Helm** package manager and **ArgoCD**.
- Configured and integrated AWS services such as OpenSearch/ElasticSearch, DynamoDB, SQS, SNS, S3, and Lambda with existing and new APIs.
- Set up monitoring and alerting systems using Prometheus with Grafana and Elastic APM to track system health and performance.
- Benchmarking and improving performance of existing services by leveraging advanced features such as the **sync** package for concurrent data handling, implementing efficient **generics** for reusable type-safe code, and utilizing **goroutines**, **channels**, and **waitGroups** for high-performance, concurrent applications.
- Implementing CI/CD pipelines in GitLab to standardize deployments, conducted thorough code reviews, and wrote comprehensive unit tests.
- Implementing log aggregation and analysis with tools like the ELK (Elasticsearch, Logstash, Kibana) stack.
- Migrating legacy applications and services to a microservices architecture. Developed and maintained **RESTful** and **GraphQL APIs** to support frontend and mobile applications.

Ernst & Young (Mid C# and Java Developer)

2020.02 -2021.12

- Architected and implemented robust API endpoints utilizing **Spring Web** and **Asp.Net Core MVC**, following the **Controller, Service, Repository/IService** pattern to ensure modularity and maintainability.
- Engineered secure authentication mechanisms using **OAuth2**, **Spring Security**, **Asp.Net Identity**, and **Identity Server 4** to manage user roles and permissions.
- Designed and configured reliable inter-service communication protocols leveraging **RabbitMQ** and **MassTransit** for asynchronous message passing.
- Optimized data access and storage solutions, implementing CRUD operations on **SQL Server** and integrating **Redis** for efficient caching and NoSQL capabilities.
- Developed comprehensive test suites using **JUnit**, **xUnit**, and **Moq** to ensure code quality and reliability, achieving high test coverage.
- Implemented file upload functionality and ensured data integrity through secure file handling techniques.
- Facilitated seamless version control and collaboration by managing repositories with **Git** and **Azure DevOps**, including branching strategies and merge conflict resolution.
- Enabled efficient API consumption by designing and handling **SOAP**, **REST**, and **GRAPHQL** requests, utilizing the **Hot Chocolate** framework.
- Authored and maintained detailed technical documentation to support ongoing development and knowledge transfer.
- Ensured alignment with agile development practices, contributing to sprint planning, reviews, and retrospectives in collaboration with **Business Analysts** and **Scrum Masters**.

LastLevel (Junior Full Stack Engineer)

2019.03 -2020.02

- Managed application state using **Vue Store** and **Angular NGRX**.
- Sent **REST** requests using **Vue Axios** and **Angular HttpClient** to interact with the backend.
- Generated mobile and desktop applications from JavaScript code using **Electron** and **Apache Cordova**.
- Dynamically displayed backend data on the frontend.
- Implemented new UI components using VueJS, AngularJS, and CSS frameworks like Bootstrap, Material, Tailwind CSS, and SCSS.
- Developed API endpoints using the Laravel framework, adhering to the MVC pattern.
- Managed user authentication and authorization, implementing user roles and generating authentication tokens using **Laravel Passport**.
- Performed database operations, including reads and writes to the MySQL relational database.
- Implemented email sending functionality for user communications.
- Tested API functionality using tools such as Postman, Insomnia, and Swagger.
- Managed version control and collaboration using **Git**, with repositories hosted on **GitLab** and task tracking via **RedMine**.
- Conducted data analysis using **Python** and implemented algorithms like **PCA**, **Logistic Regression**, **Random Forests**, **K-Means**, and **K-Nearest Neighbors** from **Sklearn**.

Education

Warsaw University of Technology (Master's Degree in Computer Science)

October 2023 -Present Currently pursuing a Master's degree in Computer Science at Warsaw University of Technology. My Master's dissertation focuses on developing a novel cryptocurrency using Rust, aiming to enhance security and efficiency in decentralized transactions.

Warsaw School of Computer Science (Bachelor's Degree in Computer Science)

October 2019 -September 2023 Completed a Bachelor's degree in Computer Science at the Warsaw School of Computer Science. My Bachelor's dissertation involved developing an application using Golang and React that analyzes CVs with AI and Elastic Search algorithms to match candidates with job requirements.