Mikolaj Semeniuk

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GitHub:
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Stack Overflow:
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Certificates

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**.
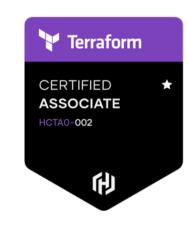
Experience

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.