Damian Mularz

Senior Software Developer

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SUMMARY

A results-driven Software Engineer with about 10+ years of experience in implementing advanced technology and business solutions in public and private industries. Specialized in **Rust, Move, Solidity, Typescript, Go, Java, Python, C#** programming with a strong focus on **Backend Service** and **Blockchain** development.

SKILLS

- **Languages & Frameworks**: Python (FastAPI, Flask, PyTest, NumPy, Pandas), JavaScript/TypeScript (React, Node.js, Jest), Rust, Java (Spring Boot), Golang
- **Databases**: PostgreSQL, MySQL, SQL Server/T-SQL, MongoDB, Neo4j
- **DevOps & Cloud**: Docker, Kubernetes, Terraform, AWS, Azure, Unix/Linux environments, CI/CD (GitLab CI)
- **Data Engineering**: Apache Airflow, ETL/ELT pipelines, cloud-native data architectures
- **Legacy & Microsoft Stack**: Pascal, OpenVMS, C#/.NET, Windows Server
- **Methodologies**: Agile (Scrum, Kanban), DevOps, Test Automation
- **Tools**: Figma, Bolt, Cursor (prototyping), Git, Jira

EXPERIENCE

Backend Engineer | TeleFi
03/2023 - 05/2025 | Atlanta US, Remote

- Developed a high-performance service for voice, video communication, and file transfers, increasing processing speed by 30%, leveraging SaaS principles for scalability.
- Integrated major DeFi applications, tools, and wallets (Ethereum, BSC, Solana, Aptos, Sui) into the chat system.
- Migrated backend from Python to Rust to enhance speed, concurrency, and efficiency.
- Optimized a Rust backend service by implementing caching and load balancing, reducing latency by 25%.
- Architected a decentralized database system using Neo4j, Hadoop, MongoDB, and PostgreSQL, improving data retrieval by 40%.
- Managed AWS deployments (EC2, RDS, S3), ensuring high platform resilience and reliability.
- Collaborated with frontend teams using React and TypeScript to ensure seamless integration of backend services.
- Built GraphQL APIs to provide efficient and flexible data exchange, improving communication between frontend and backend services.
- Utilized Docker and Kubernetes to containerize and orchestrate backend applications, enhancing scalability and reliability.

Frontend/Solana Web3 Engineer | Cropper Finance
11/2020 - 02/2023 | Lisbon Portugal, Remote

- Led the development of Cropper Finance, a decentralized exchange (DEX) on the Solana blockchain, implementing a Concentrated Liquidity Market Maker (CLMM) model.
- Conducted a comprehensive analysis of the Solidity codebase for Uniswap V3 and V4 Dexes to identify potential enhancements in the original code structure of Orca’s CLMM.

- Leveraged the Orca Whirlpool program, including Whirlpool PDAs, tick spacing, token vaults, initial sqrt price, and fee tiers, using Rust to enhance trading efficiency and user experience.
- Designed and implemented a user-friendly interface, improving accessibility for both novice and experienced traders - Developed an innovative points system tied to user asset deposits, increasing user engagement and platform participation.
- Engineered robust yield farming and DeFi functionalities, enabling users to create diversified portfolios and earn yield rewards.
- Collaborated with cross-functional teams to ensure seamless integration of various platform features and maintain high security standards.
- Migrated backend from Python to Rust to enhance speed, concurrency, and efficiency.
- Managed AWS deployments (EC2, RDS, S3, Kubernetes), ensuring high platform resilience and reliability.

Senior Full-Stack Engineer | **Comarch**
01/2018 - 11/2020 | Krakow, Poland

- Optimized requirements into responsive web and mobile apps utilizing React, React Native, Next.js, Electron, MongoDB, Express.js, and Node.js for 22 websites and enhanced using Amazon Web Services, Terraform, CI/CD, Gitlab.
- Developed a microservices-based architecture with Node.js, Nest.js, Kubernetes, Docker, MySQL/PostgreSQL, and Elasticsearch for 15 online education and medical services.
- Architected and implemented a cloud-native, microservices-based backend system using Python and FastAPI, resulting in a 40% improvement in API response times.
- Led a team of 5 developers to redesign a microservices architecture, reducing system downtime by 40% and improving response times by 30% using Spring Boot and Kubernetes.
- Led middleware development using Java and Spring, resulting in a 60% improvement in request handling efficiency.
- Converted C/C++ backend codebase to Rust backend using ActixWeb and Diesel framework, C++ bindings, ensuring memory safety.
- Developed light-weight microservices using Golang to increase development speed ensuring high efficiency and concurrency.

Middle Full-Stack Engineer | **Remitly**
03/2013 - 01/2018 | Krakow, Poland

- Engineered using Node.js, ORM and SQL, NoSQL to develop and manage databases and executed comprehensive unit and integrated testing using Jest, Enzyme, and Jasmine for 2 years.
- Led the development of pixel-perfect UI/UX using React, Next.js, TypeScript, SCSS, and Redux Saga for state management, resulting in a highly functional and visually appealing interface.
- Developed 10+ web applications using modern JavaScript ES6 features and frameworks.
- Designed APIs using Rust, Python and Golang to support the development of 20+ new web features, course management systems (CMS).

Middle Frontend Developer | **LEAWARE**
04/2009 - 01/2013 | Torun, Poland

- Developed and maintained the front-end website using JavaScript, HTML, and CSS to ensure a seamless and user-friendly online auction experience.
- Collaborated with the design team to implement responsive web designs, optimizing the platform for both desktop and mobile users.
- Achieved seamless integration through daily teamwork with senior engineering colleagues.

EDUCATION

Bachelor's Degree in **Computer Science** - 2009
Nicolaus Copernicus University in Toruń, 09/2005 – 02/2009

CERTIFICATIONS

Rust, Go, C++, Python, Node.js, C#, JavaScript, TypeScript, HTML5, OOP, CSS, SQL, MySQL