



Damian Ziemia

- R E S U M E -

CONTACT

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PROFESSIONAL PROFILE

Experienced Software Developer with a strong background in designing, creating, testing, and maintaining software systems. Proficient in multiple frameworks, languages, embedded systems, staying up-to-date with the latest trends. Highly skilled in DevOps practices. Adept at self-managing independent projects, collaborating within productive teams, and leading development efforts. Looking for challenges on the cross-path of AI, backend engineering and dev-ops.

SOFTWARE ENGINEER EXPERIENCE

Principal Software Engineer / Technical Team Lead
MarketLab - Full-time
02/2018 – 10/2023
Łódź, Poland

→ **Early Employee & Product Development:** Joined as the second full-time employee, contributing to the development of two major products from their proof-of-concept phase to fully-fledged releases.

→ **Leadership in Product Transformation:** Played a pivotal role in transforming MVPs into comprehensive products, overseeing the architectural design and problem-solving for distributed systems, embedded devices, mobile, and web applications & services.

→ **Team Growth & Leadership:** Successfully led and expanded the development team to thirteen members, fostering a collaborative and innovative environment.

→ **Cloud Transformation & Cost Reduction:** Initiated and guided the cloud transformation to Azure and Kubernetes, significantly reducing infrastructure costs and enabling scalability.

→ **Process Optimization:** Established robust development processes using GitLab, CI/CD, and fast release cycles, accelerating product delivery.

→ **Client Acquisition:** Enhanced product appeal to attract new clients by expanding product capabilities and performing product demos.

→ **Executive Collaboration:** Collaborated closely with the CEO and CTO from product inception through to IPO/product sale.

Key Technologies:

- **Cloud & Infrastructure:** Azure, CI/CD, Containers, Kubernetes, GitLab, Terraform
- **Monitoring & Logging:** Custom log processors, Elastic, Grafana, Kibana, Prometheus
- **Backend Development:** Django, D, FastAPI, Go, NestJS, Node, Python, vibe.d
- **Microservices & Messaging:** Asyncio, Lua, MQTT, RabbitMQ
- **Frontend Development:** Angular, Typescript, Vue
- **Mobile Development:** Apple deployments/mDM, iOS kiosk, Swift
- **Database Management:** PostgreSQL, MS SQL
- **Operating Systems & IoT:** Build systems, Customized Linux Builds, OpenWRT, Rust, IoT, custom Wayland-based kiosk

Architect
Media4U - Contract
12/2019 – 04/2020
Łódź, Poland

→ **System Architecture Design:** Created a new system architecture design for the Bonprix platform to enhance platform performance, scalability, and development velocity.

→ **Cloud-Native Application Design:** Designed cloud-native applications to leverage modern cloud infrastructure.

→ **Deployment Solutions:** Developed cloud, Docker, and Kubernetes-based deployment solutions.

→ **Workflow Optimization:** Implemented Git and CI/CD workflows, ensuring seamless integration with legacy platforms.

→ **Process Development:** Created robust development and deployment processes to streamline operations.

→ **Technical Documentation & Support:** Authored comprehensive technical documentation and provided ongoing support to the development team.

Key Technologies:

- **Development & Deployment:** CI/CD, Dev-ops, Git-flow, Kubernetes, Java-PHP communication
- **Load Balancing & Proxies:** HAProxy, Nginx, Load-balancing
- **Programming & Frameworks:** Java, PHP, Symfony
- **Databases & Caching:** PostgreSQL, Redis, RabbitMQ
- **Modeling & Configuration:** Legacy systems, UML, YAML, Sys-ops

Software Engineer
Harman by Samsung - Full-time
06/2016 – 02/2018
Łódź, Poland

→ **Automotive Software Development:** Successfully shipped core component for the next generation of Multimedia Head-Unit in Mercedes-Benz cars.

→ **Team Leadership:** Led team of six developers, providing architectural guidance, technical expertise and collaborating with functional owners

→ **Technical Expertise in Tracing & Linux Systems:** Served as technical expert and first point of contact in tracing and Linux sub-systems of Head-Unit development.

→ **Embedded Proficiency:** Worked with a variety of CPU architectures, including x86, ARM, and AArch64 in automotive-grade hardware environment.

→ **Open Source Technologies:** Utilized open source technologies such as DBus, Linux internals, Thrift, Systemd, and GENIVI.

EXPERIENCE CONTINUED

→ **Tool Development & Scripting:** Created tools to enhance development and testing, using shell and Python scripting that were used by whole Department.

→ **Technical Documentation:** Created comprehensive technical documentation.

Key Technologies:

- **Programming Languages:** C, C++, Python, Shell scripting
- **Libraries & Frameworks:** Boost, Systemd internals, Thrift, DBus, GENIVI DLT
- **Development & Architecture:** Technical leading, Architecture, Cross-compilation, ELF, Dwarf, Linux internals
- **Tools & Platforms:** Docker, PlantUML, DOORS
- **Automotive-Specific Technologies:** Automotive-grade hardware, Genivi, NVidia Tegra

Software Engineer

Freelance

01/2015 – 12/2016

Remote

Various freelance projects:

→ **Optimization & Custom Plugins for Łódź city hall:**

przedsiebiorczosc.lodz.pl and mlodziwlodzi.pl

→ **WordPress Customizations:** Created custom modifications for panato.org. Created website and a custom lightning tracking system based on Blitzortung for gdziejestburza.info. Created websites for imsevent.pl and ruck.com.pl

→ **Custom CMS & Proxy-like HTTP Daemon:** Developed a custom CMS and HTTP daemon for file sharing at androidgame.pl.

→ **phpBB Customizations & Web Crawler:** phpBB modifications and custom web crawler for lsforum.pl and etsforum.pl

→ **Internal Projects at Elester-PKP:** Collaborated on projects using x86 assembly, C, and PHP

Software Engineer

Fujitsu - Full-time

12/2014 – 06/2016

Łódź, Poland

→ **Server Management Development:** Developed software for managing server components, including Board Management Controller and RAID Storage Controllers.

→ **Hardware Proficiency:** Worked with server-grade hardware, specifically Fujitsu Primergy systems.

→ **Scripting & Programming:** Utilized bash scripting, C, C++, D, and Python for various development tasks.

→ **Git Mentorship:** Bootstrapped Git servers and GitLab CI infrastructure, provided mentorship on Git best practices to both local and German-based teams thus enabling faster development cycle, making ClearCase obsolete.

→ **CI/CD Implementation:** Designed and maintained a Continuous Integration and Delivery (CI/CD) system from the ground up.

→ **Build System Development:** Created from scratch a comprehensive build system using CMake enabling development on platform other than Windows.

Key Technologies:

- **Version Control & CI/CD:** Git, GitLab, GitLab CI, Jenkins
- **Programming Languages:** C, C++, D, Python, Bash
- **Build Systems & Tools:** Boost, CMake, Docker
- **Hardware & Architectures:** Server hardware Fujitsu Primergy

Junior Software Engineer

Media4U - Full-time

01/2014 – 11/2014

Łódź, Poland

→ **E-commerce:** Created e-commerce shops for various clients both as a solo engineer and as part of larger teams

→ **Sys-ops:** Administered FreeBSD servers hosting both custom services and client websites, ensuring high availability.

→ **Specialized Skills:** Designed and built from scratch custom solution for on-the-fly image processing for the new product which was the first alternative on the market to Adobe's product. Product included custom Nginx extension in C, Varnish scripts and supporting web services asset management.

Key Technologies:

- **Programming Languages:** C, C++, JavaScript, PHP, Shell Scripting
- **Databases:** MySQL, PostgreSQL
- **Frameworks:** Boost, Bootstrap, Code Igniter, jQuery, Libmagick, LibGD, Nginx internals
- **OS & Tools:** FreeBSD, Git, Linux, SVN

OPEN SOURCE ACTIVITY

→ Recent smaller contributions:

- **Neovide:** GUI frontend for Neovim written in Rust
- **Zellij:** Terminal multiplexer written in Rust
- **Ghostty:** New terminal emulator written in Zig by Mitchell Hashimoto

→ **ZetApp:** Desktop and mobile app for managing ZTE based modems. Playground for trying out Rust as mobile development platform using Tauri and SolidJS.

→ **D Language Community:** I've been vivid D language evangelist and active contributor. Contributed to standard library and official website. Created widely used paste-bin and code evaluator & IRC Bot. Made it to contributors list. Had a chance to work with Andrei Alexandrescu on making all code examples on main website runnable via my D sandbox. Been interviewed for "Project Highlight" series on Dlang's blog.

→ **phpBB2 Community:** I was granted Developer Rank on Official Polish phpBB2 community. I developed three major modifications: Extended Subforums - hierarchical forums mod which was the most performant one with all the bells and whistles and Advanced Profile Fields - allowed to add any kind of user profile fields - something that was totally absent from vanilla phpBB2.