MICHAL RUS

Wroclaw, EU ⬦ m@michalrus.com ⬦ github.com/michalrus

Haskell, Nix, Rust, DevX, communication, resourcefulness, resiliency

EDUCATION

AGH University of Science and Technology   *2014–2016*
M.S. in Computer Science (Engineering of Intelligent Systems) – grade: 90%.
Thesis: "Semantic micro-location maps for indoor localization of mobile app users."

AGH University of Science and Technology   *2010–2014*
B.S. in Computer Science – maximum grade.
Thesis: "A mind-mapping system with on-line collaboration and off-line synchronization."

EXPERIENCE

IOG (formerly: IOHK), creators of Cardano   February 2022–present
Developer Experience Engineer   *Remote*

- Provide specialized support to developers working with Cardano's wallets, specifically the full-node Daedalus and the lightweight Lace wallet.
- Specialize in the identification and resolution of complex, non-intuitive technical issues, ensuring clear communication of findings and solutions to the developers.
- Engage in efforts in managing and implementing integrations across a diverse tech stack, including Haskell, Nix, TypeScript, Node.js, Go, Rust, and PostgreSQL, across various operating systems such as Linux, macOS (including Apple Silicon), and Windows.
- Initiate and develop an intuitive application that enables end users to run their own Lace lightwallet backend locally across all operating systems, providing a full-node experience and facilitating a seamless migration path for current Daedalus users.

Volunteer Sales Associate at Local Antiquarian Bookshop   July 2022–present
Community Engagement and Sales   *Oławska St., Wroclaw, EU*

- Engage with a diverse range of clients in a street-side bookshop, initiating conversations and building rapport with potential buyers, often leading to successful sales.
- Combine interpersonal skills and a welcoming environment to foster customer satisfaction, contributing to the bookshop's reputation as a community hub.
- Support the bookshop's mission of aiding local community members struggling with addiction, by directing all proceeds towards community assistance programs.

TravelTime   2020–2021
Scala Developer, Site Reliability Engineer   *Remote*

- Developed and maintained the core product, leveraging Scala, Docker, Ansible, Python, and Nix, contributing to its performance optimization. Supported TravelTime's technology that provides efficient, large-scale travel time calculations for a range of business and government sectors.
- Developed a system for continuous testing of the core product and surrounding services, ensuring reliability in logic, uptime, response accuracy, and time.
- Designed an internal acceptance testing system with interactive graphical maps, enabling QA to visually compare and verify responses for key queries, essentially serving as "golden tests" for enhanced quality assurance.

DigitalIngot   2018–2020
Haskell Developer   *Remote*

- Executed the architecture and development of a distributed solution for a massively multiplayer online game, utilizing Haskell, PostgreSQL, and NixOS. Key features included smart TrueSkill™ matchmaking, orchestrating global regions, statistics, micropayments, and rich social interactions.

- Informally led a small team of two, focusing on backend development while coordinating closely with a frontend developer to ensure seamless integration and functionality.
- Achieved exceptional system reliability and performance, as evidenced by a recent commendation from the CEO regarding the backend's continued 100% uptime and correct operation, despite no maintenance.

FoxCommerce
Scala Developer

2016–2018
Remote

- Developed a modular e-commerce SaaS platform utilizing Scala, integrating ElasticSearch, Kafka, and PostgreSQL, and incorporating elements of artificial intelligence for enhanced functionality and user experience.

Datarino (the former core tech team of Nasza-Klasa.pl)
Data Engineer

2016
Wroclaw, EU

- Engineered and maintained a data warehouse using Hadoop, Spark and Scala, focusing on data scraping, bypassing safeguards, and ETL processes from government sources, and providing data services via APIs to the financial sector.
- Introduced improvements in developer culture, including the adoption of GitLab, extensive automated testing, pull request workflows, and systematic code reviews to enhance code quality and team collaboration.

BrightIT
Software Developer

2015
Wroclaw, EU

- Developed a new rule-based URL rewriting system for HP's enterprise CMS (TeamSite), leveraging Scala, among various other software development tasks.

CocoLab
Mobile Developer

2013
Cracow, EU

- Developed iOS (Objective C) and Android (Java) mobile applications specifically for use during the Polish Woodstock Festival.

Hostnet
Software Developer

2008–2009
Remote

- Specialized in Perl, Bash, and PHP to develop control panels, automate various processes, and manage integrations with external VoIP telephony and SIP providers.

ACADEMIA

Honorable Mention
50th Jubilee Students Scientific Associations Conference

2013
Cracow, EU

- Developed a cellular automata-based simulation for subterranean tunnel evacuation during fire conditions. Responsibilities included creating the simulation framework, developing the user interface (Swing), integrating all modules, and implementing 3D OpenGL visualization. Project details: git.io/jc3z (Published in the proceedings of the BiBT 2014 conference).

PERSONAL INTERESTS

- **Early Interest in Programming**: Began exploring programming at the age of 12, starting with Logo, a LISP-like language designed for algorithmic graphics. Discovering recursive functions laid the foundation for my interest in computer science.

- **Organizational Enthusiast**: Committed to efficiency and organization in all aspects of life. Experienced in utilizing tools like Org-mode in Emacs, recently transitioning to OpenProject for effective household management.

- **Interest in Psychology**: Keenly interested in psychology, with a particular focus on cognitive-behavioral aspects, which enhances my understanding of human behavior and interaction in both personal and professional contexts.

- **Pet Enthusiast**: Proud guardian of two cats, both of whom found their way into my life serendipitously—one on a city street and the other in a forest.

- **Musical Passion**: An amateur pianist since the age of 8, with a background in studying jazz music theory for 2 years, and Acoustic Engineering for a year.

- **Horticulture and Mycology**: Engaged in gardening and the cultivation of various plant species. Experimenting with amateur mycology by cultivating several mushroom species as a hobby.

- **Aptitude for Repair**: Enthusiastic about DIY projects and repairs, reflecting a keen interest in understanding and fixing mechanical and electronic items.