

Contact

przemyslawmroczek@o2.pl

www.linkedin.com/in/przemekmroczek (LinkedIn)

github.com/Lackoftactics (Portfolio)

Top Skills

System Architecture

Artificial Intelligence (AI)

DevOps

Languages

angielski (Full Professional)

polski (Native or Bilingual)

Przemek Mroczek

Senior Software Engineer | AI + System Architecture | MSc CS @ PJATK

Warsaw, Mazowieckie, Poland

Summary

The hardest part of engineering isn't building. It's knowing what's worth building. That's where I spend most of my energy. I'm a senior software engineer with 13+ years in Ruby on Rails, currently at Bamboo Health where I work at the intersection of backend architecture and AI integration. Recently won the company-wide hackathon with an AI-driven prototype that caught the CEO's attention. Not because of the tech, but because it solved the right problem. Before Bamboo Health: PayPal/Braintree (payments infrastructure), Fresha (hyper-growth marketplace). The thread across all of them? High-stakes systems where getting the architecture wrong is expensive. Currently finishing my MSc in Computer Science at PJATK, specializing in AI and transformer fine-tuning. Not to pivot away from engineering, but to deepen how I think about what's coming next.

Experience

Bamboo Health

Senior Software Engineer

April 2024 - Present (2 years 1 month)

Louisville, KY

Focused on delivering asymmetric business value through deep Ruby on Rails experience and AI expertise

Key Engineering & Architectural Wins:

- AI & Zero-to-One Architecture: Solo-architected and deployed a highly functional AI-driven prototype, winning 1st place in the company-wide AI Hackathon against fully staffed teams. Validated by Executive Leadership (CEO/VP) for delivering immediate, scalable business value.
- Velocity & CI/CD Optimization: Engineered the migration of Docker builds from Kaniko to BuildKit, slashing image build times by 70%. Drastically accelerated the deployment pipeline and developer feedback loops.

- Core System Modernization: Led the complex asset pipeline migration from Webpacker to Shakapacker under tight constraints, successfully unblocking the strategic upgrade path to Rails 7.
- Complex Security & Session Management: Delivered and stabilized highly coupled authentication flows, including configurable JWT timeouts paired with frontend activity tracking, ensuring robust system security.
- Engineering Multiplier: Actively elevate team productivity by optimizing local and Jenkins test performance (Spring/seed caching), leading technical interviews, and driving internal knowledge-sharing initiatives around Applied Generative AI and modern system architecture.

Clarus WMS

Senior Software Engineer

September 2023 - December 2023 (4 months)

Newsomatics

Senior Software Engineer

April 2023 - July 2023 (4 months)

Delivered high-throughput, optimized backend services for Newsomatics' real-time news applications. Focused on bypassing heavy framework overhead to maximize system performance and data delivery speed.

- High-Performance Architecture: Engineered lightweight backend services utilizing Ruby and Sinatra, specifically chosen to reduce latency and handle high-volume traffic for popular news applications.
- Real-Time Data Streaming: Designed an efficient database communication layer using the Sequel toolkit, enabling seamless, real-time news updates and significantly improving overall query execution times.

PayPal

Senior Software Engineer

October 2020 - April 2023 (2 years 7 months)

Employed via Altimetrik working directly on PayPal Braintree team.

- Contributed to the Merchant Provisioning Team at Braintree, working collaboratively with a group of highly skilled developers on the globally recognized application.
- Instrumental in connecting with American Express APIs, enabling seamless integration and enhancing the merchant experience.

- Proactively addressed and resolved issues with Amex, ensuring smooth transactions and service for our users.
- Gained expertise in managing SFTP servers, ensuring secure and reliable data transmission.
- Authored scripts for backfills and background jobs, aiding in data management and improving system efficiency.
- Undertook on-call duties to resolve common issues experienced by merchants during onboarding, demonstrating customer-centric problem-solving skills.
- Crafted complex subqueries that interact between multiple PayPal databases, enhancing data accessibility and operational efficiency.
- Utilized internal cloud solutions for development, enabling swift and efficient product iterations.
- Navigated strict security restrictions, ensuring the application complied with all security protocols and regulations.
- Employed Docker and Kubernetes in development workflow, enhancing application scalability and reliability.
- Participated in code reviews, promoting knowledge exchange and maintaining high coding standards within the team.

Netguru

Team Leader && Ruby Developer

January 2020 - August 2020 (8 months)

Warsaw, Mazowieckie, Poland

- Served as a Team Leader at Netguru, balancing leadership duties with hands-on development, reinforcing a collaborative and productive environment.
- Successfully rewrote multi-tenant architecture, increasing the efficiency and scalability of the system.
- Stepped up application security measures, proactively identifying and mitigating potential vulnerabilities.
- Skilled in writing SQL queries and incorporating strong migrations code, enhancing database efficiency and stability.
- Acted as a mentor for younger programmers in the company's mentorship program, fostering a culture of learning and professional growth.
- Delivered multiple presentations on programming topics, such as Elasticsearch and RSpec Best Practices, sharing knowledge and fostering continuous learning within the team.

Fresha

Ruby/Elixir developer

August 2018 - November 2019 (1 year 4 months)

Warszawa, woj. mazowieckie, Polska

- Held a development role at Fresha, a series C-funded platform revolutionizing local beauty and wellness appointment bookings, with a remarkable funding of \$185M.
- Took lead in creating new features using both Elixir and Ruby, enhancing the platform's functionality and user experience.
- Expertly wrote high-performance SQL queries, significantly boosting the efficiency and speed of data retrieval processes.
- Authored backfills and scripts, improving data management and operational workflow within the system.
- Emphasized quality and reliability by writing thorough tests, reducing the potential for bugs and ensuring smooth user experiences.
- Participated actively in code reviews, promoting a culture of knowledge sharing, and maintaining high standards in coding practices within the team.
- Worked with bleeding-edge technologies like the Phoenix framework, keeping the platform at the forefront of tech trends and developments.

Visuality sp.j.

Ruby Developer

August 2016 - July 2018 (2 years)

Warszawa, woj. mazowieckie, Polska

As a Ruby Developer at Visuality, I significantly contributed to the development of numerous early-phase startups. Utilizing best practices in code development, I successfully enhanced system efficiency and robustness. I was also instrumental in bolstering team knowledge and maintaining high coding standards through regular code reviews and insightful presentations. Additionally, I placed strong emphasis on quality assurance by writing comprehensive RSpec tests, ensuring high reliability in our software solutions.

Phoenix Press

Ruby on Rails Developer w Durszlak.pl

February 2015 - July 2016 (1 year 6 months)

As a member of the Durszlak team, I worked on a unique cooking blog aggregator, using Ruby on Rails. My role revolved around the efficient crawling of data, ensuring that the platform provided timely and relevant content to our users. My efforts greatly contributed to the performance of the platform, improving its response time, and enhancing the overall user experience. Through this experience, I honed my skills in web scraping and

data aggregation, and deepened my expertise in using Ruby on Rails for large-scale, data-driven applications.

Upnext Ltd.

Ruby On Rails Developer

September 2014 - November 2014 (3 months)

Warszawa

In my role at Upnext, I employed my proficiency in Ruby on Rails and leveraged the power of JRuby in developing a corporate loyalty system.

code quest

Ruby on Rails Developer

May 2013 - August 2014 (1 year 4 months)

At CodeQuest, I kicked off my career as a Junior Ruby Developer, gaining invaluable experience while working on early-phase startups. Here, I developed a solid foundation in Ruby, honing my skills while tackling the unique challenges presented by fledgling businesses. This role provided me with a strong understanding of the startup ecosystem and the agility required in such a dynamic environment. It served as a crucial stepping stone in my journey as a developer and shaped my approach to problem-solving and software development.

Education

Polish-Japanese Academy of Information Technology

Master's degree, Computer Science · (October 2024 - August 2026)

Szkoła Główna Gospodarstwa Wiejskiego w Warszawie

Bachelor's degree, Sociology · (2009 - 2012)