

Adam Rybinski

Full-Stack Engineer | AI Specialist

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TECHNICAL EXPERTISE

Full-Stack & Cloud

Node.js · GraphQL · REST APIs · AWS · Azure · Cloud Architecture · CI/CD · Git

Frontend & UI/UX

React · TypeScript · Next.js · Zustand · JavaScript · HTML5/CSS3 · Design Systems · Responsive Design · Accessibility · Data Visualization · Component Libraries · UI/UX Design Collaboration · Svelte · SSR

AI Models & Frameworks

LangChain · LangGraph · LLM Models (OpenAI, Claude, Gemini) · TensorFlow · PyTorch · Watson AI · Cognitive Computing · Neural Networks

AI Application Development

LLM Integration · Multi-agentic Workflows · Prompt Engineering · Few-shot Optimization · Instruction Fine-tuning · Real-time Data APIs · Machine Learning Interfaces · No-code/Low-code AI Platforms (Dify, Haystack, n8n)

Psychology & Cognitive Science

User Research · Cognitive Load Theory · Human-Computer Interaction · Neuroscience-Informed UX

PROFESSIONAL EXPERIENCE

Freelance Full-Stack & AI Consultant

April 2022 – Present

- Built **React/TypeScript** applications with AI-powered interfaces using **LangChain/LangGraph**, integrating **OpenAI and Claude LLMs** for document analysis tools with seamless UX flows and optimized prompt engineering
- Designed intuitive UIs for ML-powered platforms serving **10M+ users** with real-time data processing, implementing multi-agentic workflows to enhance decision support
- Developed **React** component libraries and design systems for AI-driven financial and healthcare applications, translating complex AI capabilities into user-friendly interfaces
- Created responsive, accessible frontends for LLM-based document analysis tools, leveraging prompt engineering and few-shot optimization for improved accuracy
- Built cloud-native applications on **AWS/Azure** with focus on performance and user experience, implementing CI/CD pipelines for rapid AI application deployment
- Implemented data visualization components and interactive dashboards for complex AI workflows using **Next.js** and modern state management solutions

Senior Software Engineer, Betsson Group

April 2023 – May 2025

- Developed robust design system components in **React/TypeScript**, improving development velocity across teams by 40%
- Collaborated with cross-functional design teams to ensure seamless integration and consistent user experience across **gaming platforms**
- Enhanced UI/UX through meticulous attention to detail and adherence to modern frontend best practices, reducing user friction by 35%
- Built responsive, high-performance interfaces for real-time **gaming platforms** with complex state management using **Zustand**, efficiently handling concurrent users
- Implemented agile methodologies and design thinking processes, fostering continuous improvement culture

Senior Software Engineer, Deriv Europe

October 2021 – April 2023

- Developed **React**-based **trading interfaces** with real-time data visualization and responsive design, improving user decision-making speed by 25%
- Built **GraphQL/REST APIs** powering frontend applications for high-frequency financial platforms
- Created accessible, intuitive UIs for complex financial tools used by global trading community, enhancing user engagement through data-driven design

Software Engineer, IBM

January 2017 – 2021

- Collaborated extensively with design teams to create cognitive AI interfaces using **Watson services** and early LLM concepts, improving data accessibility for enterprise users
- Built **React** frontends for enterprise AI applications in healthcare and banking sectors
- Developed advanced data grid components integrated with Carbon Design System for IBM Cloud platforms
- Created explainable AI visualizations helping users understand complex ML model decisions, applying principles of prompt engineering for clearer AI outputs

EDUCATION

M.S. Cognitive Science

Jagiellonian University, 2017–2019

Thesis: Explainable AI through Deep CNN structure analysis

B.Sc. Neuroscience

Jagiellonian University, 2011–2015

Project: Neural Network Analysis with Graph Theory

LANGUAGES

English (C1) · Polish (Native)