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Roland Kiraly

Full-Stack Engineer

Full-Stack Engineer specialising in multi-tenant SaaS platforms, AI-powered products, and cloud-native systems. Currently responsible for the architecture and development of PEP Health's healthcare analytics platform across React, TypeScript, Node.js, OpenSearch, PostgreSQL, and AWS, with recent work spanning customer-facing LLM integrations, prompt-injection protection, tenant isolation, and large-scale analytics over millions of healthcare comments. Owns features end-to-end, from product design and system architecture through deployment and production operations.

WORK EXPERIENCE

Full-Stack Engineer · PEP Health

Aug 2023 – Present

Leeds, United Kingdom

- Own the architecture and development of PEP Health's multi-tenant healthcare analytics platform across React, TypeScript, Node.js, PostgreSQL, OpenSearch, Redis, and AWS.
- Designed and shipped an AI-powered analytics assistant that lets healthcare organisations explore patient feedback data through natural language.
- Implemented safeguards against prompt injection and cross-tenant data exposure when integrating LLM workflows into customer-facing products, backed by multi-tenant access controls and data isolation across the application, search, and analytics layers.
- Built context-window management and token sizing to keep LLM interactions accurate, fast, and cost-efficient at scale.
- Architected search infrastructure using PostgreSQL, OpenSearch, and Redis to support low-latency exploration of millions of healthcare comments.
- Led technical decisions across the web platform, including frontend architecture, GraphQL and REST APIs on AWS Lambda, cloud infrastructure, observability, and deployment.

Junior Developer · Dentsu International

Jun 2022 – Aug 2023

London, United Kingdom

- Built and maintained internal React, Next.js, and Node.js tools used by 160+ users across multiple departments for marketing and SEO operations.
- Integrated MongoDB-backed services handling thousands of daily requests.
- Worked with stakeholders to turn operational problems into practical web-based tools.

EDUCATION

- **BSc Computer Science**, Birkbeck, University of London

SKILLS

- **Frontend:** React, Next.js, TypeScript, JavaScript, Redux, Zustand, Tailwind CSS, Dashboard Development, Data Visualisation
- **Backend:** Node.js, GraphQL, REST APIs, tRPC, Prisma, Python, Django, API Design
- **Databases and Search:** PostgreSQL, OpenSearch, Redis, MongoDB, DynamoDB, SQL
- **AI and LLM Engineering:** LLM Integration, Prompt Engineering, Prompt-Injection Mitigation, Context Window Management, Token Optimisation, Natural Language Interfaces, AI-Powered Analytics
- **Cloud, DevOps and Observability:** AWS Lambda, AWS CDK, API Gateway, S3, RDS, Docker, Terraform, GitHub Actions, Datadog, Sentry, New Relic, OpenTelemetry, Linux
- **AI-Assisted Development:** Cursor, Claude, GitHub Copilot, Agentic Development, AI-Assisted Debugging, AI-Assisted Refactoring

LANGUAGES & OPEN SOURCE

- **Languages spoken:** Hungarian (Native), English (Proficient), Romanian (Limited working proficiency)
- **Open Source:** [NordLayer AUR Package](#): Maintainer of the NordLayer package in the Arch User Repository.