



NANDOR SZENTPETERI

// CONTACT DETAILS

nandorszentpeteri.dev
hello@nandorszentpeteri.dev
linkedin.com/in/nandorszentpeteri

Castleford, UK (Settled status)

// OTHER INTERESTS

AI automation, mountain biking,
snowboarding, hiking, video games

// EDUCATION

University of Debrecen | 2010-2015
Business Informatics (Bsc)

// SKILLS

Programming Languages

JavaScript, TypeScript, Scala, Java,
SQL, GraphQL, Python

Tools

React, Next.js, Node.js, WebRTC,
Claude Code, LangChain, Apollo
GraphQL, Kafka, Socket.IO, Nx, Jest,
Express

Cloud & DevOps

AWS, Kubernetes, Docker, Terraform,
GitLab CI/CD, Jenkins, Git, Unix

Leadership

Technical leadership, solution
architecture, technical specification,
stakeholder management, mentoring

// WORK EXPERIENCE

Roku - UK

Senior Software Engineer | July 2023 - Present

Automated AI Engineering Platform (Personal project, building independently)

Designed and built an agentic AI engineering platform in Python with a Next.js interface to automate software delivery workflows, from Jira ticket analysis and implementation planning through code generation, evaluation, merge request creation, and CI monitoring.

The platform uses a multi-agent architecture orchestrated with LangGraph, where specialised agents collaborate through validated Pydantic models and curated context. Each workflow stage uses the most suitable LLM for the task, combining frontier reasoning models for requirements analysis and planning with faster, cost-efficient models for implementation, evaluation, and routine engineering tasks. LiteLLM provides model abstraction and automatic failover between equivalent-capability models.

Built with a human-in-the-loop approach, allowing autonomous execution while requesting input through the web interface or Slack when required. A dedicated caretaker workflow monitors merge requests, addresses review feedback, resolves merge conflicts, and tracks CI status until merge readiness.

Implemented semantic knowledge retrieval using PostgreSQL with pgvector, enabling the platform to leverage project-specific context throughout the development workflow.

Tech stack: Python, Next.js, PostgreSQL (pgvector), OpenAI SDK, LangGraph, LiteLLM, Pydantic

// WORK EXPERIENCE (CONTINUED)

Partner Platform Team

I lead the development of Roku Test Central, a key application within Roku's Partner Platform that enables factory partners to execute device testing across their own labs and Roku-managed facilities.

I drive technical delivery by collaborating with stakeholders to define requirements, shape technical solutions, and translate initiatives into clear engineering plans. I own delivery across four parallel workstreams, coordinating with internal engineers, contractors, and multiple API teams while adapting to evolving product requirements and stakeholder feedback.

Beyond product delivery, I contribute to Roku's wider engineering ecosystem through work on the company-wide design system, internal front-end framework, and deployment pipelines. I also help accelerate AI adoption across engineering teams by mentoring developers on AI agents, reusable AI workflows, and evaluation frameworks for automated development processes.

Tech stack: In-house AI tools, Claude, Cursor, React, Next.js, Node.js, Python, Kubernetes, AWS

Web Core Team

I contributed to the development of Roku's universal templating platform, enabling the generation of customer communications across multiple products, including HTML emails, mobile notifications, and short-form messaging.

I redesigned and modernised the monorepo CI/CD architecture, introducing automated validation, branch preview environments, dynamic child pipelines, selective builds and deployments, parallel execution, and automated production releases using Changesets. The platform integrated Helm-based application packaging and Kubernetes deployments on AWS within an Envoy/Istio service mesh.

This work improved the reliability and efficiency of the delivery pipeline while establishing reusable deployment patterns for web applications across Roku's engineering ecosystem.

Tech stack: Claude, GitLab CI/CD, TypeScript, Turbo, Helm, Kubernetes, AWS, Envoy, Istio

Smart Home

I led development of Roku's Smart Home web platform, delivering customer-facing features in collaboration with designers, backend engineers, and product stakeholders.

A major focus of the platform was real-time camera streaming and recording management. I integrated WebRTC into Roku's internal front-end framework, designed and implemented the WebSocket-based signaling layer, and contributed to supporting Go backend APIs. I also mentored an intern delivering smart lighting controls, providing technical guidance, design feedback, and code reviews.

This project also marked the start of my work on AI-assisted engineering workflows, where I developed a Python-based CI automation tool using Claude to perform automated code reviews and identify potential issues before changes were merged.

Tech stack: Claude, React, TypeScript, WebRTC, WebSockets, Go, Python, GitLab CI

Customer Care Team

I contributed to the development of Roku's customer support platform, building features for a Zendesk integration and supporting Node.js APIs that enabled customer service workflows.

As Roku expanded its Smart Home product range, I developed support tooling that allowed customer support agents to troubleshoot and manage Smart Home devices directly from Zendesk. This involved close collaboration with the Smart Home engineering team and provided the foundation for my transition into the Smart Home area.

Tech stack: TypeScript, React, Node.js, Zendesk API

// WORK EXPERIENCE (CONTINUED)

Ensono Digital - UK

Senior Consultant | Sep 2022 - July 2023

As a Senior Consultant, I took greater technical ownership while working with The Gym Group's engineering team, collaborating with stakeholders to define requirements, make architectural decisions, and translate business needs into deliverable engineering tasks.

I also contributed to Ensono Stacks, an open-source application framework, developing Nx plugins, generators, and reusable tooling that improved consistency and efficiency across delivery teams.

Tech stack: Next.js, React, TypeScript, Nx, Node.js, Azure

Ensono Digital - UK

Consultant | Jan 2022 - Sep - 2022

Worked with The Gym Group as a consultant engineer, collaborating with client stakeholders and engineering teams to deliver customer-facing web features. Translated requirements into technical solutions, implemented new functionality, and incorporated stakeholder feedback throughout the development lifecycle as part of an agile delivery team.

Tech stack: Next.js, React, TypeScript, Azure

Sky Betting & Gaming - UK

Senior Software Engineer | Feb 2020 - Dec - 2021

As part of the Sky Vegas team, I played a key role in migrating the product to a Next.js architecture backed by Apollo Federated GraphQL. I designed and implemented a service-agnostic data layer to simplify backend integration, rebuilt key application areas using server-side rendered Next.js pages, and contributed reusable React components to a shared component library used across multiple products. Alongside feature delivery, I mentored graduate engineers by defining technical tasks, reviewing merge requests, and providing technical guidance.

Tech stack: Next.js, React, TypeScript, Apollo GraphQL, Cypress

Sky Betting & Gaming - UK

Software Engineer | May 2016 - Feb - 2020

Initially working on Sky Casino, I developed customer-facing features and contributed to the migration of the platform to Next.js. I later joined the Promotions Platform team, where I developed Scala microservices for the event-driven Prize Machine engine using Kafka and Kafka Streams, with services deployed to Kubernetes.

Tech stack: PHP, Next.js, React, TypeScript, Scala, Kafka, Kafka Streams, Kubernetes

EPAM Systems - HU

Software Engineer | Sep 2014 - Apr 2016

Developed an enterprise web application for accounting, tax, and legal professionals, helping modernise a legacy platform through an AngularJS-based solution. I also contributed to a document generation system that transformed XML content into multiple output formats, including HTML, PDF, and email.

Neuron Software Ltd. - HU

Junior Software Engineer | May 2013 - Sept 2014

Built customer-facing and enterprise applications, including a self-service portal for a major telecommunications provider and a cross-platform mobile KPI dashboard. This role provided my foundation in delivering full-stack software solutions within an agile engineering environment.

