

David Purkiss

Software Engineer

I build the systems a business runs on, with agentic engineering

Open to staff and principal engineering roles in backend, platform, data and AI infrastructure.

Remote in the UK or Europe, or on-site in Edinburgh. Also open to relocating to the US, which would need visa sponsorship.

📍 Edinburgh, UK · 🏠 Indefinite Leave to Remain, no UK sponsorship required

✉ me@davidpurkiss.info

🌐 [Website](https://www.davidpurkiss.info) (https://www.davidpurkiss.info) [in LinkedIn](https://www.linkedin.com/in/david-purkiss-a8a26519) (https://www.linkedin.com/in/david-purkiss-a8a26519)

🐙 [GitHub](https://github.com/davidpurkiss) (https://github.com/davidpurkiss)

PROFILE

A software engineer with nineteen years of experience building the mission-critical products and data systems a business runs on. I specialise in architecting infrastructure that unlocks new product capabilities, from high-volume art drops and unified ledger systems to agentic reporting and LLM-driven insights. I led the delivery of HENI's art-market data platform, moving from foundational architecture to building the AI-powered tools it now hosts. I balance deep technical craft in Node, TypeScript and Postgres with a product-focused approach to technical leadership.

SKILLS

System design · Distributed systems · PostgreSQL · Elasticsearch · AWS · Kubernetes · MCP & agent tooling · Agentic workflows · TypeScript · Node · Stripe · Sage Intacct

EXPERIENCE

- HENI**

August 2022 - Present

Senior Software Engineer

STACK

TypeScript, Node, Postgres, Directus, Elasticsearch, Redis, Kubernetes, Stripe, Sage Intacct

PATTERNS

Event sourcing, ledger mirroring, read/write separation, entity resolution, queue-based orchestration, zero-downtime reindexing, MCP tool servers
- Truepill**

November 2021 - July 2022

Senior Software Engineer

STACK

React, TypeScript, NestJS, GCP, RabbitMQ, Kubernetes, Netlify, Contentful, CircleCI

PATTERNS

Microservices, message-driven services
- Skyscanner**

September 2019 - October 2021

Senior Software Engineer

STACK React, Redux, Java, Python, AWS, Apache Druid, Apache Spark, Experimentation
PATTERNS Payment abstraction layer, experiment-driven rollout, real-time OLAP, batch processing

The Sun Exchange

December 2017 - August 2019

Senior Full-stack Engineer

STACK NodeJS, TypeScript, GraphQL, Vue, Docker, PostgreSQL, AWS, Blockchain
PATTERNS Headless CMS, GraphQL API layer, component-driven front-end, third-party payment integration

Forgood

November 2016 - November 2017

Technical Lead

STACK .NET, C#, Cosmos DB, Aurelia, Azure, Team leadership
PATTERNS Managed-service migration, MVC to Web API, single-page application

Blue Nickel Solutions

December 2014 - November 2016

Lead Software Engineer

STACK .NET, C#, Akka.NET, MongoDB, Distributed computing
PATTERNS Actor model, microservices, distributed computation

Flowgear

July 2014 - November 2014

Full-stack Software Engineer

STACK SaaS, .NET, C#, WCF, Backbone, Silverlight, Integration

Blue Nickel Solutions

October 2010 - June 2014

Full Stack Engineer

STACK .NET, C#, ASP.NET Web API, WPF, Silverlight, Cassandra, MVVM

AD Game Programming Courses

January 2010 - June 2013

Partner/Director

STACK C#, XNA, Game Design, Game Programming

Tao-Tech

November 2009 - September 2010

Software Development Consultant

STACK .NET, C#, Syspro ERP, Joomla

Fusion Software

March 2007 - October 2009

Software Developer

STACK VB6, VB.NET, C#, .NET, ERP, MS SQL, CRM

University of Johannesburg

2002 - 2005

Bachelors of Science - Bsc IT

STACK Computer Science, Informatics, Maths, Business Management, Electrotechnics

PROJECTS

NestTube

React Native, Expo, TypeScript, Supabase, RevenueCat, Sentry, NativeWind

[🔗 nesttube.app](https://nesttube.app)

host-solo

Python, Docker, Traefik, Let's Encrypt, DNS, S3

[🔗 github.com](https://github.com)

davidpurkiss.info

Nuxt 4, Vue 3, TypeScript, Zod, Playwright

[🔗 davidpurkiss.info](https://davidpurkiss.info)

Artilly Studio

SvelteKit, Tailwind, Directus, Stripe, Brevo, Vercel

[🔗 artilly.co.uk](https://artilly.co.uk)

BEYOND WORK

👨‍👩‍👧‍👦 Family 🎹 Piano 🌐 Learning Italian 🧬 STEM 🏃 Health and Fitness