

Solutions Architect | AI, Automation & Integrations Full Stack Development

Solutions Architect with a strong full-stack engineering background, specialising in automation, API-led integrations, enterprise RPA, and production AI systems.

I design and deliver solutions across both automation platforms and custom development. When speed, maintainability, and platform fit make sense, I build automation using n8n, Zapier, and Microsoft Power Automate. When requirements demand greater flexibility, control, or scale, I architect and develop custom applications using PHP, Node.js, Vue.js, React, and REST APIs. More recently I have extended this into AI systems: retrieval-augmented generation, agentic tool-calling workflows, MCP integrations, and secure tooling that gives business teams conversational access to operational data without exposing personal information. My strength is choosing the right technical approach for the problem, not forcing every solution into the same stack. I work across the full lifecycle: discovery, requirements gathering, architecture, implementation, deployment, optimisation, and production support.

Key Career Highlights / Core Competencies

- Designs and delivers **automation and integration solutions**, including business process automation and API-led workflows.
- Builds and runs **production LLM systems**, including retrieval-augmented generation, vector search, agentic tool-calling workflows, MCP integrations, and secure enterprise AI tooling with PII filtering.
- Builds **scalable full-stack applications** using PHP, Node.js, JavaScript, Vue.js, and React.
- Designs and integrates **RESTful APIs and webhooks** for internal systems and third-party platforms.
- Delivers automation using **low-code and RPA platforms**, including n8n, Microsoft Power Automate, Zapier, UiPath, and Automation Anywhere.
- Provisions and operates **production cloud infrastructure on AWS**: EC2, RDS PostgreSQL with point-in-time recovery, S3, SES, SNS, CloudWatch, VPC security groups, and IAM instance roles with least-privilege policies.
- Builds **CI/CD pipelines and deployment tooling** using GitHub Actions, Docker and Docker Compose, with separate staging and production environments, immutable image tags, automated pre-deploy database snapshots, and scripted rollback.
- Works extensively with **SQL-based data systems**, supporting data-driven applications.

Technical Proficiencies

JavaScript, TypeScript, Node.js, Express, Vue 3, Nuxt, React, Vite, Tailwind CSS, PHP, CodeIgniter, Laravel, PostgreSQL, pgvector, MySQL, SQL Server, REST APIs, webhooks, AWS (EC2, RDS, S3, IAM, SES, SNS, VPC), Cloudflare, Docker, Traefik, GitHub Actions, Git, Linux, LLM APIs, retrieval-augmented generation, vector search, MCP, Google Cloud AI, Azure AI Document Intelligence, n8n, Power Automate, Power Platform, Zapier, UiPath, Automation Anywhere, Vitest, Playwright, Paddle

Professional Experience

Solutions Architect | Businessmap

Jun 2023 – Current

Sofia, Bulgaria

Design and deliver scalable automation, integration, and full-stack solutions using low-code automation platforms or fully custom development, selected based on business, technical, and commercial requirements. I operate across the full solution lifecycle, including requirements gathering, architecture design, development, deployment, optimisation, and production support, working closely with customers and internal stakeholders.

- Built a **custom MCP server and supporting Claude Skills**, backed by an SSO-authenticated proxy that strips personally identifiable information, letting business teams query CRM and internal platform data conversationally from Claude Desktop, Claude Code, and the browser.
- Led the migration of a PHP CodeIgniter monolith to a **single sign-on portal** with a CodeIgniter API backend and Vue.js front end, consolidating 60 tools and generalising client-specific builds into reusable products. Now used by 100+ clients, and the basis for a **50% increase in Solution Architecture team revenue** through Support Package sales.
- Designed and built a **bi-directional, fully configurable integration between our platform and an external CRM**, live over webhooks across 100,000+ records, with queue-based conflict resolution and targeted updates limited to fields that actually changed.
- Built a **Partner Hub** integrating external CRM and billing systems, automating commission calculation across 50+ partners and cutting a quarterly process from **two weeks to two days**.
- Architecting and developing **40+ custom full-stack applications** that make administrative operations and reporting scalable, built on our platform API using PHP (CodeIgniter), Vue.js, and REST APIs.
- Designing, building, and maintaining business process automation and system integrations using Zapier, Microsoft Power Automate, and n8n, delivering end-to-end solutions across finance, HR, and operations that save the business hundreds of hours of manual effort annually.

- Acting as a technical escalation point, supporting production systems, ensuring stability, performance, and secure deployments.

Technical Solution Architect | Deloitte LLP UK

Mar 2022 – Jun 2023

Glasgow, United Kingdom

Supervised and guided developers through the building and testing phases of the development lifecycle. Contributed to the full development lifecycle of RPA projects, initiating from proposal and requirements gathering, whilst collaborating with clients to ensure smooth deployment of RPA solutions to production environments and Hypercare.

- Won **four new projects** by introducing new technology, the Microsoft Power Platform, within the technical stack of the team.
- Saved clients **10,000+ hours and £250,000 annually** by developing and implementing effective document processing automation.
- Optimised governance of timesheet and forecasting tools through development of two innovative solutions for clients, resulting in saving **5,000+ hours per year** and improving governance by 30%.
- Conceived, developed, and delivered multiple client projects leveraging advanced expertise in UiPath, Automation Anywhere, Python, SQL Server, C#, Microsoft Power Platform, and Azure Forms Recogniser.

Automation Engineer to Solution Architect | Momena Group Global

May 2020 – Mar 2022

Contractor for Deloitte LLP UK • Glasgow, United Kingdom

Operational Solution Architect (Nov 2021 – Mar 2022) • Principal Automation Engineer (Apr – Nov 2021) • Senior Automation Engineer (Sep 2020 – Apr 2021) • Graduate Automation Engineer (May – Sep 2020)

Progressed from graduate engineer to solution architect in under two years, across RPA design, delivery, support, and team leadership for enterprise clients. Owner of designing low, medium, and high complexity changes to RPA automations, and direct line manager for a team of nine engineers.

- Brought more than **£80,000 in additional revenue** by designing over 40 changes consistent with client requirements.
- Minimised overall error rates by **25%** and support time by 15% through effective management of migration projects that optimised all internal automations into new platforms.
- Headed and coached a **team of nine support engineers**, advancing two to senior engineer roles within six months, with retention rates as high as 90%.

Selected Projects

- Glotsmith** glotsmith.com Language-learning SaaS, designed, built, deployed and operated single-handedly. Vue 3 and Vite front end; Node.js and Express back end; roughly 41,000 lines of production code with a 20,000-line test suite and an 85% coverage gate in CI. Runs on AWS: EC2 behind Cloudflare, RDS PostgreSQL with point-in-time recovery and a rehearsed restore drill, S3, SES and SNS, and IAM instance roles rather than static keys. Deployed via GitHub Actions with staging and production environments, automated pre-deploy snapshots and scripted rollback. Google Cloud Translation, Vision OCR and Speech behind a pluggable provider layer. Migrated billing from Stripe to Paddle.
- Compliance engineering, Glotsmith** Implemented GDPR, EU Digital Services Act, CCPA and DMCA obligations in code and schema: data-processing agreements across five sub-processors, a consent lawful-basis migration, retention sweeps with hard-capped limits, a registered DMCA agent with a strike ledger and put-back flow, and CI tests that fail the build when published legal statements and running configuration drift apart.
- mihaylov.io AI assistant** Retrieval-augmented chat assistant on my portfolio site, answering questions about my work from a curated markdown knowledge base. Nuxt 4 and TypeScript front end, n8n orchestration using its agent node with tool calling, PostgreSQL with pgvector for embeddings and retrieval, reCAPTCHA-protected API, and thumbs-up/down feedback capture.
- n8n Pro Automation Framework** Productised automation framework rather than a set of scripts: contract-defined reusable sub-workflows with published interface schemas, idempotency primitives backed by a processed-events table, run observability writing to run logs and summaries, externalised configuration, webhook signature verification, and incremental sync state. Published in tiered lite and pro editions with per-workflow documentation.
- Self-hosted platform** Multi-application Docker estate behind Traefik with automated certificate issuance, hosting the portfolio, Threadline (a moderated forum in CodeIgniter 4), self-hosted n8n, and a shared pgvector PostgreSQL.

Education & Credentials

MSc Advanced Computer Science, Distinction

Sep 2018 – Sep 2019

University of Strathclyde, Glasgow, UK

Dissertation: Predicting the Resolution Time and Priority of Bug Reports, A Deep Learning Approach

BEng (Hons) Computer and Electronic Systems

Sep 2013 – Jun 2017

University of Strathclyde, Glasgow, UK

Professional Training & Certifications

UiPath Certified Advanced RPA Developer (UiARD) • Certified RPA Associate (UiRPA) **Automation Anywhere** Certified Advanced RPA Professional

Languages Bulgarian (Native) | English (Fluent, UK educated)