

Jim Wright

Experienced Software Engineer with a demonstrated history of working in the internet industry. Skilled in API development, Systems Architecture, Database Design. Strong engineering professional with a Bachelor of Science (BSc) focused in Computing from Canterbury Christ Church University.

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EXPERIENCE

Cisco ThousandEyes — Software Engineering Technical Leader

OCTOBER 2023 - PRESENT

Led migration from GCP to AWS.

Led integration of SamKnows services into ThousandEyes services. This involved designing and implementing services to translate authentication schemes, and moving SamKnows from single region to multi-region environments.

Led implementation of ThousandEyes alerting product in relation to SamKnows metrics, requiring a new pipeline.

Ensured 50 services export appropriate **prometheus** metrics and **oTel** spans for tracing. Ensure services have sufficient alerting based on app, datastore, and infra metrics. Create and maintain **Grafana** dashboards.

Participated in on-call rota.

SamKnows — Senior Platform Engineer

DECEMBER 2021 - OCTOBER 2023

Proposed migration to **GCP + Kubernetes** to facilitate growth.

Used Terraform to provision various GCP resources: **Cloud storage**, **VPC**, **Cloud SQL**, **Memorystore**, **Cloud DNS**, **Kubernetes (GKE autopilot)**, **Load balancers**.

Used **ArgoCD** app-of-apps pattern to manage **k8s** resources, with manifests generated using a custom CICD app (**golang**) that listened to **GitHub** webhooks.

Containerised more than 40 apps (**Java**, **PHP**, **Golang**, **VueJS**) and migrated them to Kubernetes

uMotif — Senior Backend Engineer

AUGUST 2021 - DECEMBER 2021

Built a solid foundation of a core microservice using **golang**, hexagonal architecture.

LANGUAGES

PHP, Go, Python, Javascript, Java, Kotlin

FRAMEWORKS

PHP: Symfony, Laravel
Python: Flask
Node: ExpressJS
Go: GoKit
Java/Kotlin: Spring Boot

TESTING

PHP: PHPUnit, Codeception
Python: Tox, unittest, coverage.py
Javascript: Mocha
Go: Native, Testify

SOFTWARE

Jenkins, TravisCI, CircleCI, SemaphoreCI
Apache, Nginx, HAProxy, Keepalived, Supervisor
MySQL, MariaDB, Galera, Cassandra, MongoDB
Kafka, RabbitMQ
Git, Mercurial
Redis, Memcached
Docker, Vagrant
Ansible
Linux (CentOS, Gentoo, Ubuntu), Windows, OSX

SamKnows — *Senior Software Engineer*

SEPTEMBER 2020 - AUGUST 2021

NOVEMBER 2019 - SEPTEMBER 2020: Software Engineer

Worked in an **agile** squad to provide and maintain internal and external APIs and tools.

Proposed and implemented a websocket API rewrite from **PHP** to **Golang**. It was vital to scaling as the number of devices using the API increased from ~25k into the millions.

Integrated new internet performance metrics into the data pipeline. This involved working with **Java Spring**, **Kafka**, **Redis**, and **Google BigQuery**.

Implemented a **SAML SP** so that clients with supported systems can log in to SamKnows with SSO.

Infinity.co — *Software Engineer*

SEPTEMBER 2019 - NOVEMBER 2019

Introduced **Symfony 4** to the team, and built a **RESTful** self-service API. Also set up a new **AWS** environment that used **CI/CD**, **Elastic Beanstalk**, **IAM**, **VPC**, **RDS**, **Lambda** (**Golang**), **Connect**.

LINX (The London Internet Exchange) — *Software Engineer*

JULY 2017 - SEPTEMBER 2019

Worked in an **agile** team to provide and maintain internal and external APIs and tools.

Worked on an **automation** platform to manage peering LANs using **Ansible**, **Jenkins**, **Python**, and **Symfony**. Greatly reduced manual error and downtime.

Introduced **RabbitMQ** as a solution to improve automation.

Worked with other Internet Exchange's (IX) to design IX-API (<https://ix-api.net>), a **RESTful** API spec, so that customers can use the same implementation for all participating exchanges. Also designed and built LINX's implementation of IX-API (<https://ix-api.linx.net/api/v1>).

Submission Technology — *Developer*

AUGUST 2014 - JULY 2017

Introduced new technologies (**Cassandra**, **Kafka**, **Spark**, **Python**, **Nodejs**, **Micro Services**) to some projects to improve performance, scalability and maintainability. I set up and managed the **C***, **Spark**, and **Kafka** nodes.

Took over maintenance of an in-house email service provider and implemented key features and bug fixes. This improved our email deliverability and allowed development time to be invested in other vital areas.

Worked in a team to develop and maintain an in-house co-registration platform. The platform is critical to company performance and incorporates

posting real time data to clients, campaign management, and serving content to multiple websites via API and widget.

Used **Laravel 5** to build a platform that integrates with different affiliate networks to increase productivity and reduce time spent managing campaigns.

EDUCATION

Staff Awareness: GDPR and DPA 2018

AUGUST 2021

Introduction to Good Clinical Practice

AUGUST 2021

LINX Accredited Internet Technician 1

JULY 2018

Canterbury Christ Church University — *Computing 2:1*

SEPTEMBER 2011 - AUGUST 2014

My favourite modules were **Programming**, **Database Design**, and **Systems Architecture and Design**.

WHAT I'M LOOKING FOR

I have a strong desire to increase my knowledge and performance as a programmer. I like to work with interesting problems and am enthusiastic about learning new technologies and languages.

I want to work for an exciting employer who will encourage a friendly and collaborative environment in which I can thrive. I enjoy being surrounded by people who are passionate about the product or service that they provide as it builds a positive atmosphere and working environment.

Opportunities to learn from and mentor others are very important to me.