

# CHRIS VERNON

Chief Technology Officer (CTO) at Allander Analytics Ltd

+44 7980 149516

[chris@chrisvernon.io](mailto:chris@chrisvernon.io)

<https://chrisvernon.io>

<https://www.linkedin.com/in/vern-dev>

Greater Glasgow Area

## SUMMARY

CTO and accomplished full-stack developer with over 10 years' experience building enterprise-scale applications and leading technical teams.

First-class honours graduate with deep expertise in modern web technologies, cloud architecture, and complex system integration.

Delivered mission-critical platforms including IoT-enabled energy management systems and comprehensive CAFM solutions.

Looking to contribute my full-stack expertise and enterprise system experience to innovative projects

## KEY SKILLS

### Languages & Frameworks

C#, .NET, Node.js, TypeScript, JavaScript/jQuery, xUnit

### Frontend & UI

React, Next.js, Astro, Responsive Design, Tailwind, Bootstrap, Data Visualisation (Highcharts, Chart.js)

### Cloud & DevOps

Azure (App Services, Functions, VMs, WebJobs, Azure SQL Databases, Application Insights), Docker, CI/CD (Azure DevOps, GitHub Actions), Microservices

### Data & Backend

SQL Server, PostgreSQL, Redis, Entity Framework, Database Design & Optimization, RESTful APIs, Real-time Data Processing, JWT/OAuth Authentication

### Domain Expertise

IoT Integration, Energy Management Systems, CAFM Solutions, Enterprise-scale Applications, SaaS Architecture

## KEY ACHIEVEMENTS

### Startup to Success

Built complete technical infrastructure enabling mobile phone buyback startup to achieve £4M+ revenue within 24 months.

### Billion-Scale IoT Platform

Architected a system processing billions of meter readings across several UK building portfolios, handling massive data throughput with real-time analytics.

### Enterprise CAFM Innovation

Developed modern CAFM platform from scratch with ML-powered analytics, revolutionizing how enterprises manage facilities.

### Cross-Industry Solutions

Delivered transformative platforms across facilities management, circular economy, and enterprise operations sectors.

### Zero-Downtime Evolution

Orchestrated seamless migration of monolithic platform from .NET Framework to .NET 9 with zero downtime, achieving 400%+ performance improvements while maintaining continuous service for enterprise clients.

## EDUCATION

First Class Honours Degree, Web Systems Development  
[Glasgow Caledonian University](#) 09/2013 - 06/2017

## MY PASSIONS

- Refactoring and optimising complex systems - finding elegance in complicated codebases
- Crafting intuitive user interfaces that balance functionality with exceptional UX
- Continuously learning, particularly excited by the rapid evolution of frontend technologies and .NET's rapid release schedule
- Building high-performance, scalable architectures from the ground up
- Systems and infrastructure (I run my own enterprise-grade network at home because... why not?)

## EXPERIENCE

### Chief Technology Officer | Director

[Allander Analytics Ltd](#)

07/2017 – Present

*Enterprise energy management and CAFM software provider*

Co-founded and built from scratch a revolutionary CAFM platform that processes billions of IoT readings from buildings across the UK. As technical founder, architected the entire system, wrote 1.6M+ lines of production code, and scaled the platform to serve major enterprise clients while maintaining zero downtime.

- Designed event-driven architecture processing 1B+ real-time IoT data points monthly from live BMS systems nationwide
- Led platform evolution from .NET Framework to .NET 9, improving performance, in some cases by over 400%, with zero downtime.
- Implemented ML-powered regression analysis for predictive insights and anomaly detection
- Developed comprehensive white-label architecture supporting fully customisable branding, features, and data isolation, opening new B2B2B revenue streams
- Built comprehensive real-time analytics engine for instant energy and performance insights
- Collaborated directly with enterprise clients to shape product roadmap and technical requirements
- Created industry's most modern CAFM solution leveraging latest cloud-native technologies

### Head Of Software Development

[Kelvin Control Engineers Ltd](#)

06/2017 – 06/2020

*Glasgow based Building Management System manufacturer and service provider*

Designed and implemented integrated staff portal encompassing expense tracking, holiday management, job scheduling, equipment tracking, and fleet management systems.

- Architected full-stack solution serving 30+ field engineers and office staff
- Built unified employee self-service portal replacing multiple disconnected manual processes
- Architected modular system handling expense submissions, approval workflows, and financial reconciliation
- Developed intelligent job sheet management system optimizing field engineer scheduling
- Created asset tracking solution for equipment and fleet vehicles with maintenance scheduling
- Integrated holiday booking system with automated approval chains and capacity planning

### Lead Software Developer

[Tomo Technology Ltd](#)

02/2015 – 06/2017

*Highly successful mobile phone and smart device recycle and reseller*

Architected and built the complete technical infrastructure that scaled the company from zero to £4M+ revenue in under two years. Created every system powering the business from customer acquisition through device resale.

- Built scalable buyback platform that handled rapid growth from zero to thousands of daily transactions
- Developed intelligent web scraping infrastructure aggregating competitor pricing for real-time market positioning
- Created automated price optimization algorithms balancing competitive rates with margin requirements
- Designed high-performance internal sales CRM managing exponential growth in device acquisitions
- Architected stock management system processing thousands of devices daily with full chain-of-custody tracking
- Built warehouse automation features supporting multi-location operations and fulfilment
- Developed real-time financial dashboards providing instant visibility into margins and cash flow
- Created analytics platform tracking KPIs critical to scaling operations and maintaining profitability