

## Employment

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### Senior Backend Software Engineer

RotaCloud (SaaS platform)

April 2022 - Present

*Typescript, NodeJS, NestJS, EC2, EKS, Microservices, MySQL, Docker, various AWS services, Terraform*

- Core duties include: Writing, deploying and supporting production code that powers public and internal APIs on a microservice-based platform. Coaching and supporting junior engineers. Identifying and resolving technical problems and risks to the business. Writing, presenting and critiquing design documents. Participating in product discovery by interviewing customers, ideating solutions and testing assumptions.
- Designed and led a complex, cross-team project to migrate to a new billing system, reducing billing incidents and unlocking new revenue-generating opportunities.
- Built an access control framework that shortened development time and greatly reduced the risk of security defects.
- Led the conversion from request-response style microservice communication to an event-driven architecture, which has resolved numerous scaling and coupling problems and has had a large impact on stability and reliability.
- Developed a tool to assist a legacy monolith-to-microservices migration by detecting small unintentional changes introduced when rebuilding legacy APIs, which massively reduced bugs arising from the migration.
- Introduced continuous delivery to the team by implementing improved deployment pipelines and gaining consensus, causing a ~10x increase in deployment frequency and reducing the defect rate and time to defect resolution.

### Product Engineering Consultant

The Fresh

May 2022 - October 2024

*Leadflo*

- Supported 3x business growth by leading product development.
- Responsible for product strategy, roadmap, backlog and feature definition.

### Software Developer

The Fresh

February 2020 - March 2022

*Leadflo - PHP, PostgreSQL (on RDS), Go, Terraform, ECS, React, Redux, Styled Components, CircleCI, Prometheus, Docker*

- Designed and led a project to develop a marketing automation feature that reduced platform running costs by half and increased product sign-up conversion rate, while releasing the feature under budget and ahead of schedule.
- Migrated system from a legacy dedicated server to AWS cloud infrastructure (ECS and RDS) and CI/CD with zero downtime, significantly increasing deployments per day.

*IAS Academy (Dental provider training and support platform) - Typescript, Node, MongoDB, CircleCI, Docker, EC2, Ansible*

- Redesigned and reimplemented a new billing system, reducing lost payments and creating new monetisation avenues.

*General*

- Built a monitoring system that reduced company-wide app and website downtime by a large amount.

### Founder / Developer

Chargio

Jul 2019 - May 2020

- Designed, developed, deployed and marketed a platform to help pay-per-lead marketing agencies accurately and efficiently bill their clients each month.

### Freelance Web Developer

Freelance

June 2018 - February 2020

- Designed and developed PPC landing pages and WordPress marketing sites, giving clients at least a 3x ROI

## Education

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- **The Open University (October 2024 - Present):** MSc Computing (Software Engineering)
- **National Extension College (January 2019 - March 2020):** A-Level Maths
- **Aquinas College (September 2013 - March 2015):** A-Level Chemistry & Biology, AS-Level Maths, Biology, Chemistry
- **Hulme Hall Grammar School (September 2008 - June 2013):** Statistics, Science, Additional Science GCSE (A\*)  
Maths x2, English Literature, Geography, Psychology GCSE (A) English Language, Product Design GCSE (B)

## Languages, Technologies & Skills

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NodeJS, Typescript/Javascript, NestJS, REST, Go, PHP, SQL (MySQL & PostgreSQL), Distributed systems, DynamoDB, (S)CSS, HTML, Python, Docker, Terraform, Ansible, React, Styled Components, Laravel, DDD, CQRS, GitHub Actions, GitlabCI, CircleCI, TDD, REST, AWS, ECS, EKS, Prometheus, Ansible, Alertmanager, AWS, Grafana, Redis, Nginx, Apache