

Employment

Senior Backend Software Engineer

RotaCloud

April 2022 - Present

Typescript, NodeJS, NestJS, EC2, EKS, MySQL, Docker, GitHub Actions, various AWS services, Terraform

- Core duties include: Writing, deploying and supporting production code that powers public and internal APIs. Coaching and supporting junior engineers. Identifying and resolving technical problems and risks to the business
- I regularly write and present design documents, gaining consensus with the rest of my team and other relevant teams on technical design decisions
- Built an access control framework that has shortened development time and greatly reduced the risk of high-impact product defects
- Led the conversion from request-response style communication between microservices to an event-driven architecture, which has resolved numerous scaling and coupling problems and has had a large impact on the stability and reliability of the API
- Developed a tool used during a legacy monolith-to-microservices migration to detect 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 about deploying more often with the team and other stakeholders, causing a 10x increase in deployment frequency and reducing the defect rate and time to defect resolution

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, increasing deployments per day by 20x
- Re-architected and reimplemented core app systems increasing performance by 60x and improving fault tolerance
- Dramatically improved user security by implementing a multi-tenancy system

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

- Redesigned and reimplemented 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 giving clients at least a 3x ROI
- Designed and developed WordPress marketing websites focused on SEO, performance, and conversion

Education

- **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)
- **National Extension College (January 2019 - March 2020):** A-Level Maths

Languages, Technologies & Skills

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