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# Gabriel Carpreau

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## Employment

| **Senior Backend Software Engineer** | **RotaCloud** | **April 2022 - Present** |
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*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

| **Product Engineering Consultant** | **The Fresh** | **May 2022 - Present** |
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***Leadflo***
- Supported 3x growth within this role by leading product development
- Responsible for the product strategy, roadmap, backlog and feature definition

| **Software Developer** | **The Fresh** | **February 2020 - March 2022** |
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***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

***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** |
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- 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