Robert Cambridge

Self-educated software engineer specialising in web services backend & infrastructure.
Commander of `git`, `Terraform`, `Go`, `Typescript` on `node.js`, `nix`, `linux` systems, networking.
Passionate about *readable*, *scalable*, *observable* & *secure* code.
Proponent of short feedback loops, building trust through predictable delivery with Agile philosophy.
Interested in electronics repair, 3D design & printing, homelab automation & networking .
Always looking for new challenges.

> *"takes a lot of pride in delivering good work"* - Antti Kupila

> *"he really gave it 110% and was critical to the project's success"* - Eaden McKee

> *"highly skilled, battle-tested and a great team lead and mentor"* - Saemie Chouchane

> *"one of the most naturally talented programmers you'll meet"* - Jamie Learmonth

Available for work in **Amsterdam** or remote; freelance or employment offers considered.

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🐙 github.com/rcambrj
👥 Schedule a meeting
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Certifications

Experience

Backend Engineer, Frasers Group via Lab Digital, Utrecht [03/2024 - 10/2024]

- Maintained & developed `Typescript` high traffic e-commerce backend running alongside `commercetools`
- Created & fixed `Terraform` infrastructure architecting the `AWS` `Lambda` & `ECS` services
- Improved & maintained `RESTful` and `GraphQL` API features
- Introduced `nix` devshell to make onboarding & distribution of tooling easier
- Configured `nix` package for `MACH Composer` and worked with this tool daily

Platform Engineer, VanMoof via MA Micro Ltd, Amsterdam [10/2023 - 01/2024]

- Maintained & developed infrastructure managed with `Terraform`, inherited from previous team
- Brought up and improved engineer-facing `Kubernetes` clusters and staging environments
- Architected & executed plan to switch .com website to be reverse-proxied by `Cloudflare`
- Implemented `Cloudflare` rules & workers with `Terraform` to direct traffic to origins
- Assisted with the development of new internal services written in `Go`
- Wrote `Kubernetes` manifests to be instantiated by `ArgoCD`

- Continually scrutinised systems for security flaws and reported those detected

Backend Engineer, VanMoof, Amsterdam [07/2021 - 05/2023]

- Developed web services in `Go` (`golang` `Lambdas` via `Terraform`)
- Developed web services in `Serverless.js` (`node.js` `Lambdas` via `CloudFormation`)
- Brought up and maintained `AWS` services such as `RDS` , `DynamoDB` , `S3` and related network & ACL infrastructure
- Architected and developed a service to supply OTA firmware updates to bikes
- Architected and developed a service to track and investigate manufacturing faults

Lead Frontend Engineer, Polestar via code d'azur, Amsterdam [09/2020 - 07/2021]

- Mentored & guided a team of 12
- Helped maintain the `gatsby` site with several hundred static pages running `React` with `emotion`
- Collaborated with other team representatives to prepare and complete architectural plans
- Investigated new integrations, contributing to formalisation of new visions into manageable pieces of work
- Maintained & improved the deployment pipelines in `Bitbucket`
- Architected system to run database migrations on an off-the-shelf headless CMS (`DatoCMS`)

Lead Fullstack Engineer, PON Occasions via Dept, Amsterdam [01/2020 - 06/2020]

- Brought multi-deployment whitelabel frontend project from greenfield to live with a team of three
- Architected `Next.js` and vanilla `webpack` builds to use a common app codebase using `Typescript`
- Employed `React` , `styled-components` and `Storybook` for a scalable structure
- Analysed client requirements and translated into kanban-style work board
- Built a strong bridge of trust for expectations of delivery with client

Backend Engineer, [ABN AMRO Incubator] via Dept, Amsterdam [01/2020 - 02/2020]

- Implemented deployment of *multi-process* `node.js` app to Heroku Pipelines
- Architected reverse proxy/frontend/backend apps as discrete Docker-like workspaces
- Created sane `node.js` `Typescript` configuration and linting
- Pioneered unit and end-to-end testing, integrated testing in the CI/CD build pipeline
- Collaborated with testers to write and improve automated `TestCafe` scripts
- Implemented `GraphQL` API to manage files on `box.com` with custom `Auth0` authentication/authorization

Frontend Engineer, Etos via Dept, Amsterdam [09/2019 - 12/2019]

- Contributed new features and bugfixes to existing vanilla JS website
- Improved developer experience by installing sensible Javascript linting tools

Frontend Engineer, Activia via AKQA, Amsterdam [05/2019 - 08/2019]

- Led the development of this global brand's new website construction
- Brought `Gatsby` project from greenfield to delivery with a team of two
- Architected `Contentful` data structure for a global rollout across many regions and languages
- Bootstrapped project with `React` , `styled-components` , `Storybook` , `jest` & `enzyme`
- Created smooth animated transitions between statically generated pages
- Setup and maintained deployment pipeline on `AWS Elastic Beanstalk`
- Initially solo, laid the ground work for the new Amsterdam engineering team to grow with best practices

Frontend Engineer, Imperial Tobacco/Fontem (blu.com), Amsterdam [01/2019 - 04/2019]

- Configured `webpack` and `Babel` for `Jest`, `Storybook` and `Next.js` with `Typescript`
- Configured reverse proxy for micro-frontends with localisation and health checks
- Designed major parts of the API specification, with comprehensive buy in from the frontend+backend team
- Created new page components in `React` with `styled-components` and matching Contentful model architecture
- Improved `OpenAPI` / `Swagger` code generation templates for `Typescript` to better support inheritance/polymorphism

Fullstack Engineer, Ace & Tate, Amsterdam [10/2018 - 12/2018]

- Forged a plan to unobtrusively transition to continuous integration+deployment pipeline
- Dockerised services and deployed them to `AWS EB` via `CircleCI` and `AWS ECR`
- Identified data acquisition failures from third parties and built `node.js` caching layer to mitigate
- Created high impact interactions in `react-native` with careful attention to user experience cost
- Rebuilt parts of the `React` application to gain confidence by way of thorough unit testing
- Coached the team through agile principles, ultimately building trust in development capacity

Fullstack Engineer, Gain Theory via Tweag IO, London [03/2018 - 07/2018]

- Rebuilt client-facing data visualisation tools in `reactjs/redux` using `d3` and `recharts`
- Analysed client requirements to establish business data structure and functionality
- Engineered `node.js` service to transform data structure and store in `postgres`
- Implemented SVO-based ACL using `cancan` and `passportjs`
- Dockerised all services, plus `docker-compose` for developer experience

Software Engineer, Wonderbill via Boston Consulting Group, London [07/2016 - 02/2018]

- Developed a web scraping framework to retrieve consumer billing data in a `Chrome` extension
- Architected data structure to store billing data supporting a wide range of account shapes
- Dockerised services to retrieve billing data programmatically with a `node.js` wrapper to invoke `Chrome` via `Selenium`
- Trained and led a small team of developers creating scripts to scrape & store billing data
- Architected and implemented strategies to track, follow and improve billing data accuracy
- Repeatedly exceeded improvement targets for data accuracy and acquisition efficiency
- Contributed small improvements to `golang` & `ruby` data storage services

Frontend Engineer, NHS England via Web Technology Group, London [01/2016 - 06/2016]

- Developed a web-based CMS-like document management intranet site running `reactjs/redux` powered by `Nuxeo`

Frontend Engineer, Arcadia Group, London [08/2015 - 12/2015]

- Developed leading UK retail brands' e-commerce front ends
- Created reusable logic across the 8 retail sites whilst supporting brand identity

Frontend Engineer, Square Enix, London [03/2015 - 06/2015]

- Continued development game website in `backbone` and `marionette`
- Created an avatar provider microservice
- Iterated authentication library to support new major features retaining backwards compatibility

Fullstack Engineer, Expedia, London [12/2014 - 02/2015]

- Developed internal analytics/reporting intranet site running `backbone`
- Refactored non-standard `node.js` `express` API into organised `RESTful` endpoints

- Implemented MVP (presenter) architecture to abstract business logic from API URLs
- Rewrote the ACL to use permission-based authorisation with hierarchy and groups

Frontend Engineer, Square Enix, London [05/2014 - 10/2014]

- Developed website for a game in `backbone` and `marionette`
- Created a cross-domain consumer authentication (SSO) library for company-wide roll out

Lead Frontend Engineer, Sportlobster, London [01/2014 - 03/2014]

- Led & mentored a team of 3 frontend developers using Javascript

Fullstack Engineer, Boxlight, London [10/2010 - 12/2013]

- Architected & developed hundreds of web applications in PHP and Javascript
- Deployed using rsync to AWS EC2 machines, eventually with Jenkins