

# Will Clarke

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## SMC Gateway - Remote Software Engineer (4 months)

April 2020 - July 2020. **Golang**

*SMC builds hardware for radio & online communication*

- Added new features to improve long-term hardware sales:
  - Enabled third-party developers to interface directly with our main application (this included a client library)
  - Created & integrated a microservice to send push-notifications
  - Dockerised & added CI to our main codebase

## Ratio - Software Engineer (10 months)

June 2019 - March 2020. **Mainly Golang with some Node & PHP**

*Ratio is a Fintech software company - products include a loan search engine.*

- Led several projects end-to-end including:
  - Automated complex reporting processes, saving 2 engineer-hours/day
  - Created reusable domain models, significantly simplifying development workflow
  - Improved how a central model was accessed and stored, allowing the business team to be more efficient
- Mentored junior engineers
- Introduced a new focus on writing & maintaining documentation - this has made a huge difference to our long-term productivity

## Deliveroo - Software Engineer (2½ years)

November 2016 - May 2019. **Ruby & Golang**

*Deliveroo*, sells & delivers restaurant meals.

I was part of the CX team. We were responsible for giving the customer a great experience after ordering.

- Launched several successful products:
  - **Order Tracker** - customers can view their order's progress
  - **Self-help flow** - customers can claim compensation & find help
- Collaborated with other teams to improve our data pipeline
- Led the company-wide movement to start deprecating old apps
  - this reduced our maintenance burden and improved the order rate
- Extracted parts of our main monolith into services
- Routinely lead features end-to-end: definition, development & release

## Snaptrip - Backend Software Engineer (2 years)

October 2014 - November 2016. **Ruby / Rails**

*Snaptrip* is a marketplace for last-minute holiday cottages.

- Created API integrations with several different 3rd party APIs.
  - doubled the number of cottages we had on our books
- Added a transactional emailing system
  - improved customer retention and ordering frequency

## Personal Projects I've had fun making

- URL-Shortener written in Golang
- Snake written in Haskell (I gave a talk about this at Deliveroo)
- Pong written in Rust
- Chip-8 Emulator wrттten in C
- Mucking around with Bash / Unix by curating my dotfiles

## Technical stuff I've become interested in recently

- Functional programming - everything is immutable REALLY...
- Linux (recently set up NixOS on an old ThinkPad X230)
- Database reliability / maintenance
- AWS / simple devops / infrastructure as code

## Before I got into Software...

- Forward3D: PPC Analyst (2012 - 2014)
  - Started off as a number-cruncher, but taught myself to code to automate a lot of my job :)
- Durham University: MSc Evolutionary Anthropology (2007 - 2012)

## Some Lovely Technical Keywords

SQL, Postgres, Terraform, AWS, Devops, Agile, Testing, Pairing, Ruby, Golang, Bash, Unix, SSH, CD, CI, API, REST, Rails, Sinatra, DB, Web, TDD, Scripting, JSON, Vim, Emacs, MVC, Git, OOP, Architecture, Software, Backend, Docker, Linux