

# Felix McCuaig - Full Stack Software Developer

<https://github.com/felixlucien>

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## Education

- **Camberwell Grammar School** Student  
*VCE Qualification* *Jan. 2015 - Dec. 2020*
  - English, Maths, Chemistry, Latin.
  - UMEP Melbourne Uni first year mathematics extension, Linear Algebra and Calculus 2.
  - Cisco CCNA 1
- **University of Melbourne** Student  
*B.Sc, Mathematics + Computer science* *Jan. 2021 - Present*
  - Currently doing applied maths + computer science at UniMelb. Studying part time i.e half course load.

## Work Experience

- **Energetiq (energetiq.com.au)** Intern  
*High School Work Experience* *May 2018 - June 2018*
  - Gained exposure to professional software development environment. Was able to build software development skills and contribute to frontend team.
- **EVUp (evup.com.au)** Full Stack Developer  
*Tech Lead* *Aug 2021 - Sep 2022 (1 yrs 2 mos)*
  - Responsible for the design and implementation of EV Charging management software.
  - Responsible for turning user stories into software implementation and designing solutions to meet client needs.
  - Responsible for building OCPP network for smart electric vehicle chargers, implementing OCPI API for 3rd party and products integration.
  - Created and deployed GraphQL server, CI CD pipeline with cloud build, deployed services with cloud run, implemented Redux in react application.
  - Created and deployed an end-to-end prepayments and postpayments system for EV charging.
  - API integrations between internal APIs and popular enterprise software such as Xero, Trello, Square and Stripe.
  - Created React Native app.
  - Setup monorepo and project code sharing.
  - Led project from ~10k lines of code to ~40k lines of code over the course of a year.
- **Energetiq (energetiq.com.au)** Software Engineer  
*Part Time* *Sep 2022 - Present (9 mos)*
  - Built energy reconciliation software for Australian energy retailers & contributed to both front and back end in an agile team.

- Worked on React using Redux, Jest unit testing, cypress integration testing.
- Worked on Java springboot services, used hibernate and elasticsearch. Tested using mockito and TestContainers. Used oracle & postgresql databases and redis key value store.
- Worked with AWS infrastructure, AWS codepipelines, octopus deploy, and Jenkins.

## Passion Projects / Open Source Contributions

- **ShareShop App**  
[github.com/felixlucien/flutter-autocomplete-textfield](https://github.com/felixlucien/flutter-autocomplete-textfield) *Sep. 2018*
  - An app that allowed people to collaborate on shopping lists, an individual would create a “family” where many people could all add to, modify and delete a synchronized shopping list. Using firebase and google cloud services cloud computing. The app would also use machine learning and OCR to scan shopping lists and it would recommend recipes that could be made using ingredients from the shopping list. Front end written in Flutter.
- **IOT ESP8266 firmware rewrite**  
[github.com/felixlucien/esp-link](https://github.com/felixlucien/esp-link) *Sep. 2019*
  - Reprogrammed an off the shelf wireless IOT device to route wireless traffic into an ethernet gateway. Note this project included circuits and hardware augmentation.
- **Flutter AutoCompleteTextField**  
[github.com/felixlucien/flutter-autocomplete-textfield](https://github.com/felixlucien/flutter-autocomplete-textfield) *Oct. 2019*
  - Created a Flutter UI component which had not been made at that time. An autocomplete-textfield (like the suggestion finder you use when typing into Google search).
  - Published to the open source community on pub.dev and the project is now used worldwide in Flutter projects.
- **felixmccuaig.com**  
[github.com/felixlucien/felix-blog](https://github.com/felixlucien/felix-blog) *2022*
  - Created personal developer site in react.
  - Contains blog posts, mission statement etc.
- **quotesolar.co**  
*Hypothetical B2B SaaS landing page.* *2022*
  - Written in T3 stack: NextJS, Tailwind, TRPC.

## Skills

### Languages / Paradigms:

TypeScript, Python, Java, Monorepo, OOP, Functional Programming, Service Based Architecture.

### Technologies And Frameworks:

#### Front End:

React, NextJS, Redux, CSS, Tailwind, GraphQL (Apollo Client).

#### Back End:

NodeJS, Rest APIs (Express), GraphQL (Apollo), Docker, Realtime Websocket Communication.

**Databases:**

NoSQL Database (MongoDB, Firestore), Relational Database (MySQL PlanetScale, Oracle, Postgresql).

**Interests:**

The design and operation of commercial software at scale.

The architecture of complex software.

Data Science, ML.

Distributed Systems.