# Aron Teh
## Software Engineer

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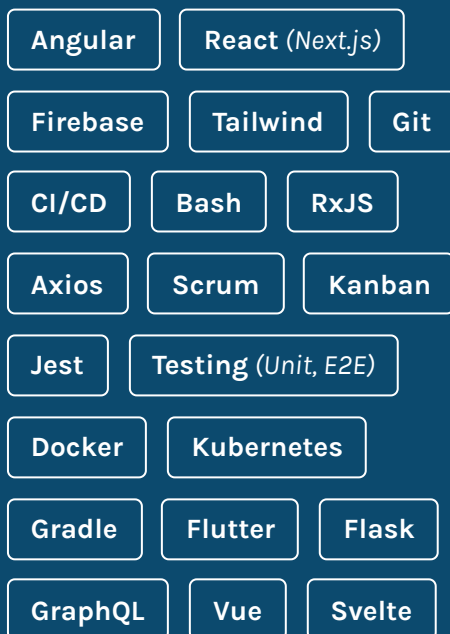- ☺ github.com/Ellipsoul
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Exceptionally fast learner, self-taught from first line of code to securing a full time software engineering role in less than 4 months. Particularly interested in frontend web and cross-platform development.

*Technologies and languages listed in decreasing order of proficiency*

## ⊗ Skills and Technologies

| Angular | React (*Next.js*) |
|---|---|

| Firebase | Tailwind | Git |
|---|---|---|

| CI/CD | Bash | RxJS |
|---|---|---|

| Axios | Scrum | Kanban |
|---|---|---|

| Jest | Testing (*Unit, E2E*) |
|---|---|

| Docker | Kubernetes |
|---|---|

| Gradle | Flutter | Flask |
|---|---|---|

| GraphQL | Vue | Svelte |
|---|---|---|

## ⟨⟩ Programming Languages

| HTML | CSS (*Sass, Less*) |
|---|---|

| JavaScript | Typescript |
|---|---|

| Python | SQL | Java |
|---|---|---|

| MATLAB | Dart | R |
|---|---|---|

## ⊕ Languages

**English** (Native Proficiency)

**Chinese** (Native Proficiency)

## 💼 Professional Experience

**THG** ↗
*Software Engineer*
Sep 2021 – present | United Kingdom
- Developing and maintaining an Angular component library and Java backend to be used by multiple internal teams, while confidently handling challenging and dynamic BAU tasks.
- Collaborated effectively with UX designers to build Angular UIs for a content management system used by over 100 clients.
- Successfully performed an end-to-end customer profile SQL database migration for a recent company acquisition.

## 🎓 Education

**Imperial College London**
*Aeronautical Engineering (MEng, Master of Engineering)*
Sep 2017 – Jun 2021 | London, United Kingdom
*Masters Thesis* ↗ : Explored and built a parallel solver for sparse conic optimisation problems using the Alternating Direction Method of Multipliers.

*Notable Modules*: High Performance Computing, Mathematics, Numerical Analysis, Optimisation, Control Systems, Introduction to Computing, Computational Aerodynamics.

## 🚀 Technical Personal Projects

**SkyStory** ↗
*Angular, Firebase, Tailwind, Angular Material, Axios, RxJS, PWA*
- Dynamically themed responsive progressive web app (PWA) where users can query live and forecast weather information.
- Utilises a third-party API service to retrieve weather data.
- Integrated Firebase authentication and Firestore database automatically saves past queries for authenticated users.

**NanoNote** ↗
*Angular, Firebase, Tailwind, Angular Material*
- Lightweight and responsive web application for managing simple notes, integrated with Firebase authentication.
- Users can create, update, sort and categorise unlimited sticky notes in an intuitive, minimalistic and dark-theme-enabled UI.

**TurboFile** ↗
*React (Next.js), Firebase, Tailwind, Material UI, Jest, Puppeteer*
- Responsive web application enabling users to easily and efficiently upload and share files within seconds.
- Additional features to view, download and manage uploaded files are made available to Google authenticated users.

**Online Chat Application** ↗
*React, TypeScript, Python, Flask, SQLite, Material UI*
- Simplistic single-room chat application where users connect with a username and chat with others, hosted using GitHub Pages with a backend SQL database deployed with Heroku.

**Travelling Salesman Problem Visualiser** ↗
*Angular, TypeScript, Angular Material*
- Interactive visualisation of various heuristic and brute force algorithms for solving the Travelling Salesman Problem.

## ♟ Interests

**Chess**
- Youngest ever Malaysia National Chess Champion (2013)
- FIDE Master (Lifetime International Title Invented)
- World Chess Olympiad Participant (Norway 2014)
- President of Imperial College Chess Club (2018-2019)