

# KATIE YANG

4<sup>TH</sup> YEAR COMPUTER SCIENCE MENG, UNIVERSITY OF WARWICK

**P** +447475081808

**E** katieyang2019@gmail.com

**A** 40 Silk Mill Road,  
Redbourn, AL3 7GE

**W** <https://www.linkedin.com/in/katie-yang-5a53311b3/>

## ABOUT ME

Often described as someone with a great work ethic and who is responsive to feedback, I strive to always complete my work to the highest standards. Having now undertaken several internships, I am looking to take the next step in growing my career as a software engineer.

## EXPERIENCE

### Internship @ MongoDB (Query Optimization)

19 Jun 2023 – 25 Aug 2023

- Contributed to the new query optimizer by implementing Boolean algebraic optimizations on Petrick's algorithm; improved the query planner's tie breaking behavior with new heuristics.

### Internship @ TripAdvisor (Frontend Engineering)

04 Jul 2022 – 02 Sep 2022

- Worked as part of the top-of-funnel engineering team within Viator to migrate pages from Dust to React, as well as removing old API dependencies.
- Collaborated with the design team to implement AB tests for new site design.

### Internship @ SPD Bank (IT Support)

22 Mar 2022 – 14 Apr 2022

- Worked as part of the IT department to ensure the day-to-day running of the office was frictionless.
- Created scripts to automate previously manual tasks, such as status reports.

## PROJECTS

- **Recipe Scraper** (React, Flask, MySQL): Web application which scrapes, reformats, and saves online recipes to notebooks from an input link.
- **Chore Sharing Application** (HTML & CSS, PHP, SQL, JavaScript): Web application with a login system and algorithm to split chores according to weighting, complete with dynamic updates using AJAX and jQuery.
- **Scratch Clone** (Haskell): Web application using Google Blockly aiming to replicate the programming language Scratch. Interpreter is written in Haskell.
- **Mentorship Application** (React, Django): Full stack development with focus on designing and implementing the frontend of a mentor matching web app.

## OTHER INTERESTS

- Making art in various medias, both traditional and digital
- Rifle shooting – 2<sup>nd</sup> in HSRA Winter Special Junior Competitions, etc.

## EDUCATION

### University of Warwick

- Computer Science MEng
- 1<sup>st</sup> grade in years 1-3

### St Albans School

- A-Level: A\*A\*A\*A
- Mathematics, Further Mathematics, Chemistry, Physics
- Two silvers in Senior UKMT

### Queenswood School

- GCSE: 9A\*
- Two golds in Intermediate UKMT, including best in school

## KEY SKILLS

- Working experience with Python, Java, C, C++, HTML & CSS, PHP, SQL, Haskell, JavaScript, Dust and React
- Familiarity with database query execution pipelines
- Working experience with GitHub and GitLab
- Experience designing with Figma and digital illustration
- Strong mathematical and analytical skills
- Experience working with Linux, Windows and MacOS

## LANGUAGES

- English (Fluent/Native)
- Mandarin (Native)