

# Ken-Chi Huang

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Github: <https://github.com/kenchi-huang>

Enthusiastic, passionate, and hard-working individual with a deep interest in software engineering and machine learning. A proficient user of programming languages such as Java, C-based languages, and Javascript and keen to develop my technical skills further. I am currently entering my final year of studies at King's College London undertaking my BSc in Computer Science.

## Key Technical Skills

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Programming Languages:	Proficient: Java, C++, Javascript, CSS Intermediate: Swift, MySQL, ReactJS, HTML, Scala, MATLAB, Simulink, C Basic: React-Native, TypeScript
Main Competencies:	Git, Adobe Creative Suite, Microsoft Office Suite, Linux, macOS, DevOps

## Education and Qualifications

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**BSc Computer Science with a Year in Industry:** September 2019 – Ongoing

King's College London

(First-Class Honours expected; currently at 81.2%)

*Key Modules:*

- 1) Database Systems - 79%
- 2) Data Structures - 86%
- 3) Programming Practices and Applications (Java Programming) - 75%
- 4) Foundations of Computing (Discrete Maths and Logic) - 83%
- 5) Internet Systems (Networking, HTML, JS, and CSS) – 70%
- 6) Practical Experiences of Programming (C++ and Scala Programming) - 87%
- 7) Introduction to Artificial Intelligence (Classical AI and Machine Learning) - 76%
- 8) Programming Language Design Paradigms - 84%
- 9) Operating Systems and Concurrency - 83%
- 10) Robotics Group Project (Robotics Operating System and Python) - 83%

**A Levels and GCSEs:** September 2017 – June 2019

Tiffin Boys Grammar School

A level: Mathematics (A), Government and Politics (A), and History (A\*)

## Projects

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**Airbnb Java Application:** Achieved 77% for the assignment.

- Worked on the implementation of the Google Maps Streetview API in which ambiguous issues arose around incompatibilities between JavaFX and the API, which required me to find a solution quickly to complete my portion of the project.
- Worked in a team of four to develop a JavaFX application to retrieve data from a csv file and implement Google Maps API for 360-degree street view.

**Unifin/CoinControl:**

- Worked in a team of three to develop a React-Native based Fintech application.
- Encountered ambiguous compatibility errors between iOS and Android, which required quick thinking and the use of my problem-solving skills to fix.
- Successfully implemented Google Firebase and the Cloud Vision API while simultaneously working on parts of the dark themed UI using CSS within the constraints of a strict 24-hour deadline.
- The project started off as a submission to hackSheffield6 and won the categories for best Fintech project and best implementation of Google Cloud.

## Work Experience

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### **Mercedes-AMG High Performance Powertrains:** September 2021 – September 2022

Software and Controls Engineer (Placement Year) for Vision EQXX and Formula One

- Worked on implementing functionality to the battery management system, and researched and implemented a Kalman filter based solution for state of charge estimation.
- Worked on implementing new additional functionality to the ECU software for the current generation of Formula One power units.
- Collaborated with colleagues on theorising possible ways to implement suggested improvements and fixes to the software.

### **King's College London:** June 2021 - August 2021

Undergraduate Research Fellow

- Worked in a small research team to research and analyse different ways that large complex datasets could be visualised.
- Discussed the direction that each member of the team would take on this research project and determined that my direction would be from using clustering to analyse the data.
- Collaborated with teammates to pool our analysis together to present the results in a more cohesive manner to the research supervisor.

### **British Airways:** July 2018 – July 2018

Flight Operations Programme Student

- Completed flight operations training which included team exercises and assessments as well as shadowing senior members at their headquarters.
- Worked cohesively as a part of a team in day-to-day problem-solving exercise.

## Positions of Responsibility

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### **Senior Prefect:** April 2018 – June 2019

Tiffin Boys Grammar School

- Worked within a senior prefect team consisting of senior prefects and the head boy in managing major events and helping prefects with their duties.
- Helped solve issues surrounding missing prefects or issues around events.

### **Co-Founder and Vice President of the Photographic Society:** June 2016 – July 2019

Tiffin Boys Grammar School

- Co-founded the Photographic Society at my secondary school and co-ran it.
- Successfully negotiated an increase in the society's budget by 10% to encourage student participation.
- Ensured fiscal responsibility by running a consistent budget surplus.

### **Founding member of the Cinematography Society:** April 2014 – December 2015

Tiffin Boys Grammar School

- Helped students tap into their creativity and cinematography skills in weekly sessions.
- Filmed events to broadcast to increase student engagement with events.

## Interests and Skills

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**Hackathons:** hackSheffield 6 (2020)

**Languages:** English – Fluent  
Cantonese – Fluent  
Mandarin – Intermediate  
German – Intermediate

**Music:** Piano – Grade 5

**Interests:** Photography, Basketball, Football, Formula One

**Courses:** Professional Skills for a Globalised World, UX Foundations, MATLAB Basics, MATLAB Intermediate