

# KEVIN CEN

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## EDUCATION

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**Imperial College London** – London, UK September 2019 – Present

MEng Computing

- Extra-curricular: Piano, Guitar, Music Production society.

**Prior Pursglove College** – Guisborough, UK September 2017 – June 2019

A Levels

- **4A\*s** in Computer Science, Maths, Further Maths, Physics.
- Academically ranked **1st** out of **522** students taking A-Level in the college.

## PROJECTS

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**visuAlgorithm** – <https://github.com/kevcen/visuAlgorithm> Jun 2020 – Jul 2020

- Created an algorithm visualiser of 13 algorithms including: A\* pathfinding, quick sort, DFS, BFS, randomised Prim's maze generation, etc.
- Used JUnit and TestFX to implement unit tests such as checking final result is sorted (for sorts), heuristic is correct (for A\* Pathfinding), maze is properly generated etc.
- Skills: Java, JavaFX, JUnit, CSS, Gradle, Git

**ARM11 Group Project** – <https://github.com/kevcen/audiovisualiser> May 2020 – Jun 2020

- Built an ARM11 assembler and emulator.
- For our extension, we built an audio spectrum visualiser using FFTW and SDL which could also be displayed on an RGB LED matrix using a Raspberry Pi.
- Skills: C, Git, Raspberry Pi

**iMProve** – <https://github.com/kevcen/iMProve> Dec 2018 – Mar 2019

- Built a flashcards system, music audio quiz, adaptive music terms test and graphs displaying scores over time.
- Used by former piano teacher and her current students.
- Skills: Java, JavaFX, CSS, SQL (with MS Access)

**kevchat** – <https://github.com/kevcen/kevchat> Jan 2018 – Apr 2018

- Created a multi-user chatroom which connects over the internet, with an admin hierarchy and secret commands such as music playing, changing themes, kicking players (as admin) etc.
- Developed with the Prototype methodology with 5-8 friends as my users.
- Skills: Java, Java Swing.

## AWARDS

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**IC Hack 2020** – [https://github.com/kevcen/escape\\_from\\_huxley](https://github.com/kevcen/escape_from_huxley) Feb 2020

- Best-Entertainment Hack: 2nd place (out of 16 in the category).
- Largest student run hackathon in the UK. .

**UKMT Senior Maths Challenge** Dec 2018

- Best-in-College, Best-in-Year, Gold Certificates.

## TECHNICAL SKILLS

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- **Programming languages (in order of ability):** Java, C, Visual Basic, Haskell, Python.
- **Tools and Technologies:** Git, JavaFX, JUnit, TestFX, Pygame, SQL, CSS, HTML, Gradle.

## VOLUNTEER WORK

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- Entertained and helped look after elderly people in Roseberry Court Care Home. Dec 2017 – Feb 2018
- Lead a group of 20 students to fundraise and refurbish Redcar Guides Hall. Jul 2017 – Sep 2017
- Organised events in 25k Youth Centre. Apr 2016 – Sep 2017