

# KEVIN CEN

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## EDUCATION

- Imperial College London** – London, UK September 2019 – Present  
BEng Computing
- First Year: First Class. 84.1% overall including 91% Java. (**Dean's List**)
- 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.

## EXPERIENCE

- Computer ConQuest** – Shangton, UK August 2020 – October 2020  
Software Development Intern
- Worked full-stack, implementing crucial owned property mortgage calculations and heavily redesigning the web-app's front end for the Brickflow project.
  - Built and redesigned automatically generated reports for the DST Salvo project.
  - Experience gained: Git, TypeScript, C#, SASS, AngularJS, HTML.

## PROJECTS

- visuAlgorithm** – GitHub Jun 2020 – Jul 2020
- Created an algorithm visualiser of 13 different algorithms including: A\* pathfinding, Quicksort, Depth and Breadth First Searches, Prim's and Kruskal's maze generation, etc.
  - Used JUnit to implement unit tests such as testing the heuristics are consistent.
  - Skills: Java, JUnit, CSS, Gradle, Git
- ARM11 Group Project** – GitHub | YouTube Demo May 2020 – Jun 2020
- Built an ARM11 assembler and emulator.
  - Leading the group for our extension, we built an audio spectrum visualiser using FFTW and SDL which could be displayed on an LED matrix with a Raspberry Pi. (90%)
  - Tested with our own unit tests and Valgrind (memory leak checker).
  - Skills: C, Git, Raspberry Pi.
- iMProve** – GitHub Dec 2018 – Mar 2019
- Built a music theory study system including flashcards, adaptive music theory testing and graphs of scores.
  - Currently in use by former piano teacher and her young students.
  - Skills: Java, CSS, SQL (using MS Access).

## AWARDS

- Dean's List 2020** Aug 2020
- Top 10% academic results in the first year.
- Best Entertainment Hack (2nd Place)** – GitHub Feb 2020
- Led my group of 5 freshers to build a Department of Computing themed escape-shooter game.
  - IC Hack 2020 - Largest student run hackathon in the UK.
- UKMT Senior Maths Challenge** Dec 2018
- Best-in-College, Best-in-Year, Gold Certificates.

## TECHNICAL SKILLS

- **Programming languages:** Proficient in Java, Python; familiar with C, SQL; previously used Visual Basic, Haskell, C#, JavaScript/TypeScript.
- **Tools and Technologies:** Experienced with Git, JavaFX, JUnit; familiar with Linux, CSS/SASS, LaTeX, HTML; exposed to Gradle, AngularJS.

## VOLUNTEER WORK

- Regularly assisted and tended to 5-10 elderly residents in Roseberry Court Care Home. Dec 2017 – Feb 2018
- Led a group of 15 students to fundraise and refurbish Redcar Guides Hall. Jul 2017 – Sep 2017
- Organised and planned events for 25k Youth Centre for 30 children on average. Apr 2016 – Sep 2017