

# KEVIN CEN

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## EDUCATION

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**Imperial College London** – London, UK September 2019 – June 2022

- BEng Computing

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

A Levels

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

**Rye Hills School** – Redcar, UK September 2012 - June 2017

GCSEs

- GCSE: 11 A\*-Cs (including **eight A\*/9** grades)
- High grades in a low-income background, Ofsted rated requires-improvement state school.

## PROJECTS

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

*Department of Computing themed 2d Platformer Python game*

- Coded in 24 hours for IC Hack 2020.
- Runners-up (2nd place) for Best-Entertainment Hack.
- Using pygame module, I event-handled key-events and implemented core projectile, enemy classes with real-time animations and fully functional collision checking with terrain and projectile to player/enemies. Designed certain wallpaper/menus using Adobe Photoshop.
- Learnt how to collaborate in a team coding and solve merge conflicts utilising Git (Github).

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

*Revision software that motivates/eases the teaching of music theory.*

- Created with JavaFX, JFoenix material design libraries, MS Access databases with SQL, audio handling, complex data structures and model-view-controller architecture.
- Heavily user-experienced focused to maximise ease of teaching from older piano tutors and to young learners
- Full A-Level Project Report (pdf) on github.

**KKPlay** – <https://github.com/kevcen/KKPlay> Jun 2018 – Jul 2018

*A convenient, visually pleasing, panda-themed music player*

- Uses Gluon Scenebuilder, CSS, JavaFX Beans properties and bindies, animations, JFoenix, LinkedHashMaps, Material Design icons, JavaFX media package to process audio and self-made art with Adobe Photoshop. Implemented with model-view-controller architecture.

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

*A multi-user chatroom that has secret commands!*

- Involved Java Swing, socket connections over WAN, java.io package to write to files, over sockets and audio handling, multi-threading and synchronisation in both server-side and client-side code.
- Designed emoticons/program-icon art with Adobe Photoshop and deployed into executable files.

## AWARDS

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**IC Hack 2020** Feb 2020

- Best-Entertainment Hack: Runners Up.
- Team of first year students for a non-fresher, open category.

**UKMT Senior Maths Challenge** Dec 2020

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

## TECHNICAL SKILLS

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- **Programming languages (in order of ability):** Java, Visual Basic, Haskell, Python
- **Tools and Technologies:** Git, JavaFX, Pygame, SQL, CSS, HTML
- **Other computer experience:** MS Office, Adobe Photoshop CC/CS6 (Art), FL Studio 25 (Music)

## INTERESTS

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- Music Production, Digital Art, Gym, Esports, Piano, Self-Improvement