

# Anthony Catterwell

Email: [anthony.catterwell@gmail.com](mailto:anthony.catterwell@gmail.com)

Mobile: +44 7572019279

Github: <https://www.github.com/catterwell>

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## Education

### University of Edinburgh

Edinburgh, UK

*Computer Science and Mathematics BSc. (Hons)* expected 1st

2016 — 2020

Year 1: 84% average (120 credits taken)

Year 2: 82% average (160 credits taken)

### Bangkok Patana School

Bangkok, Thailand

*International Baccalaureate* (38/45)

2014 — 2016

Higher level: Mathematics, Physics, Chemistry

Standard level: Economics, English, Thai

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## Projects & experience

- **Compiler:** Wrote compiler for a subset of C to MIPS-Assembly. *Java, MIPS*
  - **LLVM Compiler Pass:** Wrote dead-code elimination pass in LLVM. *C++, LLVM*
  - **Coinz App:** Created location-based coin collection-game. *Java, Android, Firebase, Mapbox, Material-UI*
  - **Tank AI:** Designed and built an AI for a tank in a multiplayer game. GreatUniHack 2018. *Python*
  - **Battleships:** Created battleships game with single- and multi-player modes. *Python, TCP*
  - **Street Maintenance App:** Implemented back-end of server-less pothole-reporting app. Hack-UPC 2018. *Java, Android, AWS Lambda, AWS DynamoDB*
  - **Login monitor:** Built service to remotely log logins to networked university computers. *Python*
  - **Staff search-engine:** Created to search university staff and students given their roles. *Python*
  - **Twitter-bot detector:** Co-created program to identify bot-accounts on Twitter. Hack the Burgh 2018. *Python, Twitter API*
  - **Micro-bit controllers:** Programmed motion-sensitive micro-bit game-controllers. Hack the Burgh 2017. Won ARM prize. *Python, Micro-bit API*
  - **Spellchecker:** Wrote constant-time spellchecker. *C* (June 2015)
  - **Programming Internship:** At Centara Grand corporate office in Bangkok. Contributed to the back-end of their staff website involving user-account management. (June 2014). *C#, SQL*
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## Technical skills

Java, Python

*Most proficient*

Linux, Git

*Daily use*

C++, AWS, Firebase, Android, LLVM, Maple, Haskell, C, Matlab, NoSQL, XML

*Good understanding*

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## Extracurriculars

University of Edinburgh Computing Society member

2016 —

University of Edinburgh Mathematics Society member

2016 —

DipABRSM Piano Performance

2013