

Anthony Catterwell

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

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

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*
 - **Internship:** At Centara Grand Hotels' head office in Bangkok. Contributed to the back-end of their staff website involving user-account management. *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,

Good understanding

XML

Extracurriculars

University of Edinburgh Computing Society member

2016 —

University of Edinburgh Mathematics Society member

2016 —

DipABRSM Piano Performance

2014