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*

- **Tank AI**: Designed and built an AI for a tank in a multiplayer game. GreatUniHack 2018. *Python*

- **Coinz App**: Created location-based coin collection-game. *Java, Android, Firebase, Mapbox, Material-UI*

- **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*

Technical skills

Java, Python	*Most proficient*
Linux, Git	*Daily use*
C++, AWS, Firebase, Android, Haskell, C, NoSQL, XML	*Good understanding*

Extracurriculars

University of Edinburgh Computing Society member	2016 —
University of Edinburgh Mathematics Society member	2016 —
DipABRSM Piano Performance	2014