

# Anthony Catterwell

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## Education

### University of Edinburgh

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

Edinburgh, UK

2016 — 2020 (expected)

Year 1	Year 2	Year 3	Year 4
84% average	82% average	79% average	ongoing

### Bangkok Patana School

*IB Diploma (38/45)*

Bangkok, Thailand

2014 — 2016

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## Professional experience

### Amazon

*Software Development Intern*

Luxembourg City, Luxembourg

June — September 2019

- Implemented, tested, and deployed component of high-throughput, high-availability data-retrieval service to enable the fetching of data from additional sources in AWS.
  - Designed, implemented, tested, and deployed front-end web UI and associated back-end REST service to enable self-service bulk data submission by internal customers.
  - Invited to return for full-time role.
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## Personal projects

- **Compiler:** Built a compiler for a subset of C to MIPS-Assembly. *Java, MIPS*
  - **Coinz App:** Designed and implemented location-based coin collection-game. *Java, Android, Firebase, Mapbox, Material-UI*
  - **Tank AI:** Designed and implemented an AI for a tank in a multiplayer game. GreatUniHack 2018. *Python*
  - **Battleships:** Implemented battleships game with single- and multi-player modes. *Python, TCP*
  - **Login monitor:** Designed and implemented service to remotely log logins to networked university computers. *Python*
  - **Micro-bit controllers:** Programmed motion-sensitive micro-bit game-controllers. Hack the Burgh 2017. Won ARM prize. *Python, Micro-bit API*
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## Technical skills

Java, Python, Linux, Git, SQL, Guice, Mockito, AWS (S3)

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Hadoop (MapReduce), TypeScript, AngularJS, Pandas, SKLearn, REST, Firebase, Mapbox, Android, Maple, AWS (DynamoDB, Lambda)

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Hibernate, Spring, C, C++, Haskell, MIPS-Assembly, LLVM, MATLAB, R, AWS (Data-Pipeline, Redshift, RDS)

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\*\*\* Extensive use through multiple major projects.  
\*\* Substantial use through at least one major project.  
\* Good familiarity through use in at least one smaller project or minor use in a major project.