

# ANTHONY CATTERWELL

anthony.catterwell@gmail.com +447572019279

---

## ABOUT ME

<b>Professional interests</b>	Cloud architectures, distributed systems, machine learning, data mining, web-development
<b>Legal status</b>	British and Thai dual citizen

---

## EDUCATION

<b>The University of Edinburgh</b>				Edinburgh, UK
BSc. (Hons), Computer Science and Mathematics, 1:1 (expected)				2016 — 2020 (expected)
Year 1	Year 2	Year 3	Year 4	
84% average	82% average	79% average	ongoing	
<b>Bangkok Patana School</b>				Bangkok, Thailand
IB Diploma (38/45)				2014 — 2016

---

## EMPLOYMENT

<b>Amazon.com, Inc.</b>	Luxembourg City, Luxembourg
Software Development Intern (ASIN Localisation)	June — September 2019
<ul style="list-style-type: none"><li>Implemented, tested, and deployed component of high-throughput, high-availability data-retrieval service to enable the fetching of data from additional sources in AWS.</li><li>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.</li><li>Created metrics and dashboards for measuring and monitoring performance and data quality.</li></ul>	

---

## SELECTED PROJECTS

- **C Compiler:** Built a compiler for a subset of C to MIPS-Assembly. *Java, MIPS*
  - **Predictive classifier of exam performance:** Designed and developed a performant machine-learning model to predict performance of students in an online exam given logged data recorded earlier in the same exam. This constitutes a leading submission to the NAEP Data Mining Competition 2019. *Python, Pandas, Scikit-learn, XGBoost*
  - **Android App Coinz:** Designed and implemented location-based coin collection-game. *Java, Android, Firebase, Mapbox, Material-UI*
  - **Select components of a DBMS:** Implemented B-tree record manager, and heap file of a simple database management system. *C++, Minibase*
- 

## TECHNOLOGIES

Java, Python, Linux, Git, SQL, Guice, Mockito, AWS (S3), Vim, L <sup>A</sup> T <sub>E</sub> X	***
PyTorch, C++, MapReduce (Hadoop), TypeScript, Angular, Unix shell scripts, Pandas, Scikit-learn, REST, Firebase, Mapbox, Android, Maple, AWS (DynamoDB, Lambda)	**
Hibernate, Spring, Haskell, MIPS assembly, LLVM, MATLAB, R, AWS (Data Pipeline, Redshift, RDS)	*

\*\*\* Extensive use in multiple major projects.

\*\* Substantial use in at least one major project.

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