

# ANTHONY CATTERWELL

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## ABOUT ME

**Professional interests** Cloud architectures, distributed systems, machine learning, data mining, web-development.

**Legal status** British and Thai dual citizen.

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## EDUCATION

**The University of Edinburgh** 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

**Bangkok Patana School** Bangkok, Thailand  
IB Diploma (38/45) 2014 — 2016

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## EMPLOYMENT

**Software Development Intern** Jun 2019 — Sep 2019  
*Amazon* Luxembourg City, Luxembourg

This was a summer internship during which I worked in ASIN Localisation.

- 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.
- Created metrics and dashboards for measuring and monitoring performance and data quality.

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## 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*

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## 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, Red-shift, 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.