

# Adam Howard

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## Technical Skills

- Strong working knowledge of **Python** development, including specific experience with **pandas**, **scikit-learn** and AWS integration through **boto3**.
- Experienced with **AWS**, specifically geared towards data pipeline use cases; services such as **Lambda**, **Glue ETL**, **Redshift**. Also worked with integrated **Apache Airflow** for orchestration.
  - Managed resources through **Infrastructure as Code** with **Terraform**.
- Good working knowledge of **SQL / PostgreSQL**, both for querying data and managing tables.
- Familiar with the following through a combination of university, employment, and self-teaching:
  - **Java, C, C++, JavaScript, R, HTML, CSS** and **Haskell**
  - Applied Java through **Android Studio**, learning the skills independently as part of a university group project, mostly working on front-end.
- Familiar with the **Agile Development Process**, including practicing roles as Scrum Master.
- Use of **Git** through professional work, hackathons, and university projects.
- Developed data visualisation dashboards in **Qlik Sense**.

## Work Experience

**Pacific Life Re, London**  
**Data Science Year-long Placement**

**Sept 2022 to August 2023**

- **Developed a generalised ETL** framework for client data regularly received by the team:
  - Explored the use of AWS for the pipelines, expanding the cloud capabilities of the team.
  - Designed and wrote bespoke tooling for generating the pipelines on a client basis, including a “no-code” configuration system which is then compiled to deploy into AWS.
  - Delivered training to other members of the team on how to use and maintain the system that I had developed, alongside providing comprehensive documentation.
  - This system will be used extensively by the team for years to come.
- **Took ownership of a major client’s data**, being responsible for interpreting and processing it:
  - Researched the product structure and offerings of the client, giving context to data.
  - Created datasets for other teams within the company to support their work, with several iterations of requirements gathering and review. These datasets are then used to directly inform pricing decisions.
- Contributed to work on **identifying automated insurance applications**:
  - Expanded on the existing solution, providing a way of better targeting a specific client.
- “[He] has significantly exceeded the expectations of his role within the team” (feedback).

**Calibrate Consulting, London**  
**Work Experience / Data Intern**

**June 2018, then July 2019 to Sept 2020**

- Attended a week’s work experience in June 2018:
  - Worked with the IT team to develop visualisations from large data sets using specialised software (Qlik Sense), completing a dashboard project over the course of a week.
  - **Assisted with running the programme** for another group of work experience students later in the year, giving guidance based on my project.
- Later returned as a Data Intern in July 2019, intermittently working casually over 18 months:
  - Developed a prototype exam results analysis dashboard for Alleyn’s School, again built in Qlik Sense, using data provided by the school.

## Education

**University of Bath, Bath, Somerset**  
**Computer Science with Placement (BSc)**

**Sept 2020 to July 2024**

- Awarded **First-class honours**, with an **82.38 average** over 16 modules, including:
  - Machine Learning / Natural Language Processing
  - Rendering Pipelines
  - Human Computer Interaction and User Experience
  - Safety-Critical Systems
  - Data Structures and Algorithms
- Final-year project based around photometric stereo for surface reconstruction.
  - Midway demonstration of progress selected as exemplar for future years.
- Awarded **2021 Netcraft Prize for Bath Computer Science First Year Results**, as one of 25 highest-performing first year students based on overall results from a cohort of ~150.
- Completed a **year-long software engineering group project**, covering the software development lifecycle:
  - Participated in all aspects of the Agile development process, including:
    - Working as Scrum Master.
    - Developing problem analysis and requirement specification.
  - Gained experience working as part of a team remotely, including using GitHub.
- Attended **Technical Labs**, an education program run by students at University of Bath teaching skills such as the command line, Git, and debuggers.

**Alleyn's School, Dulwich, London**

**Sept 2013 to June 2020**

- **A-Levels** Achieved (Summer 2020):
  - **A\*** in Maths, Further Maths, Physics
- **GCSEs** Achieved (Summer 2018):
  - **Top Grade (A\*/9)** in 10 GCSEs
- **FSMQs** Achieved (Summer 2018):
  - **A** in Additional Maths

## Other Experience

- **BathHack 2021 / 2024** (University of Bath Hackathon):
  - Devpost portfolio available at <https://devpost.com/adam101howard>
  - In both projects, worked on front-end using JavaScript with React.
- **Lead Peer Mentor at University of Bath 2021-2022:**
  - Planned and ran events for new Computer Science undergraduates. Projects included a website to choose a mentor and organising a welcome event, as well as socials throughout the year.
- **Academic Representative at University of Bath 2021-2022:**
  - Voted for by peers, responsible for communicating with the department on behalf of students. Initiative taken as part of a team by polling students and discovering issues.
- **Volunteering at the Saturday Maths Scheme at Alleyn's School over 2018:**
  - Helped mentor Year 5 students with extension mathematics.
  - Selected for a similar program in 2019, this time with Year 7 students.
- **Jointly ran the Lower School Science Club and Robotics Club at Alleyn's School.**

## References

**Dr Zack Lyons**

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Department of Computer Science  
University of Bath  
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