

# BECK CHAMBERLAIN

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## ABOUT

Versatile Computer Science finalist with experience in analytical problem-solving and software development across academic and applied projects, demonstrated through structured research, technical analysis and systematic organisation of complex datasets and systems. Past performance collaborating within team-based and structured development frameworks, contributing effectively in fast-paced environments.

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## EDUCATION

### COMPUTER SCIENCE BSC (HONS) - EXPECTED 1<sup>ST</sup> CLASS

Aberystwyth University, 2023-2026

#### Machine Learning (79%)

- Deployed preprocessing, visualisation, and feature analysis on a 7,000 row fetal alcohol syndrome dataset, including handling missing values, attribute selection and data transformation.
- Trained and optimised 5 machine learning models using hyperparameter tuning and cross-validation to evaluate robustness and generalisation performance.
- Evaluated comparative model performance and consolidated findings into a structured 4,000-word technical report, delivering data-driven analysis and clear methodological rationale.

#### Advanced Algorithms (81%)

- Studied and performed advanced algorithmic techniques on NP and NP-hard problems, including graph traversal and network flow.
- Conducted complexity analysis, comparing theoretical time and space bounds with empirical performance to evaluate efficiency and scalability.

#### Software Engineering (84%)

- Designed, implemented and tested object-oriented software systems using Agile methodologies, Git-based version control and unit testing frameworks.
- Led a team of 7, resolving interpersonal challenges, adapting communication styles to varied working preferences, and fostering collaboration to ensure delivery ahead of deadlines.

**Other Relevant Modules:** Scientific Python, Artificial Intelligence, Information Security

### KING EDWARD VI SCHOOL SOUTHAMPTON 2015-2023

- A Levels: Classical Civilisations (B), Computer Science (C), Mathematics (C)
  - 10 IGCSEs: Grades A\*-B including English (A) and Mathematics (8)
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## RELEVANT EXPERIENCE

### INFOMATION SERVICES INTERNSHIP

Aberystwyth University, 2025 - 2026

- Delivered a comprehensive audit of over 300 pages on the Aberystwyth University website, determining suitability for migration to a new platform, segmenting content by audience (students, staff and public), and evaluating stakeholder journeys to enhance navigation and engagement.
- Independently identified up to 50 outdated, inconsistent and inaccurate webpages, compiled a detailed findings report, and deployed corrective updates to strengthen reliability, consistency and institutional credibility.
- Identified competitor universities for 10 popular degrees and conducted a comparative analysis of their course webpages, focusing on structure, design, content, and functionality.

### CODING WORKSHOP

King Edwards VI School, June 2019/2020

- Selected to plan and lead educational outreach programmes over the course of 2 days, coordinating a team of 6 volunteers.
  - Designed and delivered interactive sessions to groups of 30 students within a 45-minute timeslot.
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**GENERAL  
EMPLOYMENT  
EXPERIENCE**

**BARTENDER**

Bar 46, Aberystwyth 2024 - 2026

- Achieved daily and monthly sales targets, resulting in bonuses and generating revenue up to £5,000 a night.
- Executed high-volume service, managing payments, tending the bar, and making cocktails for up to 100 customers per hour, alongside training 5 new staff.
- Co-ordinated with a team of 4 during busy 10-hour shifts, upselling merchandise and offers.

**HOSPITALITY AND RETAIL EXPERIENCE**

Southampton Area, 2019 - 2026

- 7 years' experience within FMCG, retail and hospitality environments, including 3 years in leadership and supervisory roles.
  - Managed core operational procedures, including training, cash handling, stock control and opening/closing procedures.
  - Demonstrated adaptability across retail operations, waitressing, bartending and food preparation within fast-paced settings.
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**RELEVANT  
SKILLS**

**Technical Skills**

- Highly proficient in Python, C#, and Java with 4+ years of experience
- Competent in C, C++, and SQL
- Experience using machine learning tools such as TensorFlow, XGBoost, and Scikit-learn
- Familiar with version control tools such as GitHub
- Practised in HTML5 and JavaScript
- Confident using Linux, Mac and Windows operating systems
- Adept in relevant systems such as Microsoft 365

**Practical Skills**

- Full clean driving licence
  - Level 2 first aid qualification
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**INTERESTS AND  
ACTIVITIES**

**Secretary of Kaotica 2024-2026 (Board game and Warhammer society):** Headed liaison with the student union, managing room bookings, and negotiating sponsorship agreements. Increased the society's discount at the local game store from 10% off models to 20% off models and 15% off painting supplies through this role.

**President of Sea Rowing Club 2025-2026:** Revived Aberystwyth Sea Rowing Club by recruiting new members, coordinating with the local town rowing club, and regularly attending training sessions over a 21-month period. Led the club to its first race victory and a twofold rise in membership.

**Additional Activities:** Engaged in debating and public speaking for eight years, demonstrating communication, negotiation, and active listening. Pursued learning outside of university, attending the 2025 Ada Lovelace Colloquium, and presenting a poster on AI warfare. Additionally, regularly participating in coding challenges, such as Advent of Code.

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**PROJECTS**

**WINDOWS FORM APPLICATION TO ASSIST WITH D&D BATTLES**

Developed a Windows Form application with an Azure SQL backend to assist Dungeons & Dragons players with tracking battles for both online and in-person games.

**Implemented the following features:**

- Ability to host and join game rooms using a room code and password.
- Real-time map interactions for moving player and NPC tokens.
- Generation, customisation, and deletion of NPC tokens controlled by users.

**ADDITIONAL PROJECTS**

Other projects are available at: <https://github.com/BeckCham> or [beckcham.com](http://beckcham.com)

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REFERENCES AVAILABLE ON REQUEST

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