

Ben Thornton

Staplehurst, Tonbridge

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MEng Computer Science (First Class Hons), with Dean's List Award.

Software Engineer, C#, .NET & Blazor, Rust & WASM Enthusiast

Highly adaptable Software Engineer with a strong background in .NET, Blazor, **CI/CD** pipelines and cloud infrastructure. Mathematically and scientifically inclined with experience in data science. Passionate about high-performance, real-time applications with personal projects in this domain.

Experience

RDT Limited

Maidstone, UK

SOFTWARE ENGINEER

Jan 2024 - Present

- Developing and deploying web-based applications using **.NET** and **Blazor (C#)**, with a strong focus on **Test-Driven Development (TDD)**, **API design**, and best coding practices.
 - Taking ownership of features, independently driving development, testing, and deployment while collaborating with cross-functional teams to ensure smooth releases.
 - Contributing to **open-source projects** such as **Blazorise** to accelerate internal development, submitting pull requests to unblock dependencies.
 - Actively involved in **mentoring** and **recruitment**—reviewing code submissions, providing feedback, and representing the company at career fairs to attract new talent.
 - Leading** daily standups, facilitating team discussions, and ensuring effective **cross-team collaboration** to maintain alignment and productivity.
- ASSOCIATE SOFTWARE ENGINEER
- Delivered high-quality PBIs for web applications, mastering **.NET** and **Blazor**, and implementing features from design to deployment.
 - Spearheaded **Infrastructure as Code (IaC)** using **Terraform** and optimized Azure DevOps pipelines for a critical project.
 - Mentored** apprentices and new hires, guiding them through feature development, testing, and best practices in code quality.
 - Gained **AZ-900 Azure Fundamentals** certification from **Microsoft**

Aspirant to Software Engineer after one year

Cambridge, UK

BIOINFORMATICIAN DEGREE APPRENTICE (LVL 7)

Sept 2022 - Sept 2023

- Developed and optimized algorithms for drug discovery using **Rust**, and performed data analysis with **Python** and **R**.
- Used **Kubeflow** for scalable remote analysis of large datasets in cloud environments.
- Adapted quickly to new languages like **R**, delivering coursework within tight deadlines while working full-time.
- Gained experience with **Linux** system management and **Java** for application development.
- Completed training in time management and presentation skills to improve technical communication.

University of Southampton

Southampton, UK

STUDENT DEMONSTRATOR - AGILE WORKFLOW

Feb - May 2022

- Mentored and guided student teams in **Agile development**, overseeing the creation of **Java**-based applications.
- Led review meetings, provided technical feedback, and acted as a bridge between students and faculty.

Education

University of Southampton

Southampton

COMPUTER SCIENCE MEng HONS. **FIRST CLASS WITH DEAN'S LIST AWARD**

October 2018 - 2022

- Year 1:** Excelled in Programming I and II, mastering Object-Oriented concepts in Java (scores: 80% and 84%). Achieved 100% in Data Management coursework demonstrating proficiency in Git Version Control. Overall first-year module average: 75%.
- Year 2:** Explored Functional Programming in Haskell, including developing a unique programming language. Delved into Theory of Computing and Interaction Design.
- Year 3:** Secured a First-Class Mark in Dissertation focused on software standards using Rust Programming Language. Advanced in Natural Language Processing, Machine Learning Technologies, and Web Infrastructure (**95% on a coursework involving HTML and CSS**). Yearly average: 82.5%.
- Year 4:** Completed a Master's Dissertation on Trend Detection at Scale. Gained knowledge in Computational Finance, Software Security, and Project Management (PMBOK). Achieved a yearly average of **80.7%** and was honoured with the **Dean's List Award** for outstanding academic performance.

Oakwood Park Grammar School

Maidstone

2011-2018

- GCSE:** Achieved nine A* grades, including Mathematics, Computing, and French, plus three A grades.
- A-Level:** Attained A* grades in Mathematics and Further Mathematics, and an A in English Language. Excelled in the Extended Project Qualification with an A*, creating a polling website using the **Laravel** framework. Received two subject awards, a distinction shared with only one other student.

Skills / Projects

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|---------------------|--|
| Languages | <p>Proficient in Rust, Python, and Object Oriented Languages such as Java (but could very easily pick up C#). Developing skills in C and JavaScript (React). Familiar with PHP, HTML, CSS, Bash, SQL, LaTeX, Haskell, and R.</p> <p>Adept at rapidly acquiring new programming languages and technical concepts, as exemplified by mastering Rust.</p> |
| Technologies | <p>Experienced with both Windows and Linux environments, proficient in using Command Line Interface (CLI), and versed in Git and basic DevOps practices.</p> |
| Frameworks | <p>Knowledgeable in using Laravel. Although I have not yet worked with .NET Core, my proven ability to rapidly master complex technologies like Rust and my foundational skills in object-oriented programming make me confident in my ability to quickly adapt to and excel in using .NET Core and other technologies relevant to the role at Tribeca.</p> |
| Projects | <p>Club Booking System: Developed a system for a school to streamline their extra-curricular activities management. Worked closely with the Data Manager to gather requirements and implement the solution. F1 Data Drive: Created a telemetry application using Rust and a user interface in React for the F1 video game series, enabling racers to analyse and improve their driving skills. I learnt JavaScript from scratch to complete these projects.</p> |

Interests

Music

- Dedicated guitar player for over a decade, balancing regular lessons with academic and professional commitments.
- Active participant in musical groups, including playing in a Jazz Band during my first year and engaging in Live Music Society Jams in my fourth year, demonstrating teamwork and a passion for collaborative performance.