

Joshua Sebastine

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PROFILE

Medical student and First-Class, Award Winning Engineer and Scholar at the University of Cambridge.

EDUCATION

MB, BChir - Medicine, University of Cambridge 09/2025 – 06/2028
Cambridge, UK

- Key modules: Anatomy, Physiology, Biochemistry, Pharmacology, Pathology, Human Reproduction, Neurobiology and Human Behaviour, Medical Statistics, Medical Ethics, Preparing for Patients

BA (Hons) - Engineering, University of Cambridge 10/2022 – 06/2025
Cambridge, UK

- Final Year Grade: **First Class Honours**
- Prizes: Department of Engineering **Project Prize for highest mark** in 'Mechanics of Natural Materials' project, Churchill College Prize Scholarship for First Class Performance
- Key Modules: Information and Computer Engineering (Signals and Systems, Statistical Signal Processing), Bioengineering (Genetic Engineering, Mathematical Physiology, Biomaterials, Neuroscience), Cambridge Judge Business School (Business Economics, Risk Modelling)

A-Levels and GCSEs, Carmel RC College 09/2020 – 06/2022
Darlington, UK

- Prizes: Highest mark in school for A-level Physics, Best overall A-level results in school
- A-Level Grades: **A*A*A*A*A** in Mathematics, Biology, Chemistry, Physics and EPQ
- GCSE Grades: **999999998** (September 2015 - June 2020)

PROFESSIONAL EXPERIENCE

Research Student, Royal Papworth Hospital 12/2025 – 02/2026
Cambridge, UK

- Conducted a project with Mr Large on Cardiopulmonary Bypass and its role in the development of Dementia.
- Presented to over 20 doctors (trainees and consultants) in the Department of Cardiothoracic Surgery.
- Presented a lecture and poster at the MCR Conference at Churchill College, University of Cambridge.

Undergraduate Supervisor, University of Cambridge 10/2025 – Present
Cambridge, UK

- Organising and delivering small group teaching for 30 Medical Undergraduates and Engineering Undergraduates at the University of Cambridge.

Business Analytics Consultant Intern, Allstate 06/2025 – 08/2025
Belfast (Hybrid), UK

- Sole intern selected out of 700+ applicants (0.14% acceptance rate)
- Led strategy for the Agency Unsold Leads product within Allstate's NBA (Next Best Action) engine, a digital tool projected to generate \$10M/year in value.
- Facilitated discovery & framing sessions, daily stand-ups (Scrum Master), and cross-team collaboration with data scientists and product managers.
- Built business features/stories and created process maps, one-pagers, and value quantification models.
- Designed and delivered multiple presentations (midpoint, final) on project vision and outcomes to technical and non-technical audiences, including VPs, directors, and the Chief Data Officer.

Summer Research Intern, UCL Institute of Ophthalmology 06/2024 – 08/2024
London, UK

- Conducted a project in the MacDonald Lab, investigating retinal ageing in turquoise killifish as a model for human vision loss.
- Applied techniques including in situ hybridisation, immunohistochemistry, and microscopy to study gene expression and retinal pigment epithelium (RPE) changes.
- Maintained killifish embryos, prepared samples for confocal microscopy, and performed staining experiments.
- Gained experience in lab operations, journal clubs, and interdisciplinary collaboration with PhD/postdoc researchers.

AWARDS AND SCHOLARSHIPS - University of Cambridge

- **First-Class Prize Scholarship**, Churchill College, University of Cambridge: for **First Class performance in 3rd Year Engineering** (2025)
- **Project Prize**, Department of Engineering, University of Cambridge: for **highest mark (ranked first)** in the Mechanics of Natural Materials Project (2025)
- **Summer Opportunities Scholarship (£2,800)**, Churchill College, University of Cambridge: to support my summer research project in the UCL institute of ophthalmology (2024)
- **Triple Music Scholarship (£750)**, Churchill College, University of Cambridge: Awarded to support my studies in learning the organ (2023, 2024, 2025)

EXTRACURRICULAR POSITIONS

Co-President of Churchill College Medical Society, JCR Access and Education Officer, Academic Representative for Pre-Clinical Medicine, Secretary of Cambridge University Surgical Innovation Society, Treasurer of Cambridge University Medical Entrepreneurship Society, Publicity Officer of Cambridge University MedTech Society

SKILLS

Data Analysis • SQL • Python • Excel • PowerPoint • Agile • Leadership • Communication • Teamwork