



# William Harmer

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## Education

### University of East Anglia

BSc Hons in Computer Science – First Class

Norwich

Sep 2022 – Jul 2025

## Experience

### Cambridge Design Partnership

#### Software Engineer Intern

Cambridge

Jul 2024 – Sep 2024

- Exposure to embedded systems through medical device hardware interaction in C.
- Insight into ML-based bug detection for IoT computer vision.
- Experienced GitLab workflows, Docker, and Agile Scrum in collaborative environment.

### IT Intern

- Acquired company's network infrastructure management and monitoring knowledge.
- Participated in training sessions related to IT security practices and company-specific software.
- Provided technical support to employees, resolving hardware and software related issues.

### Reale Camiceria

#### Freelance Web Developer

Richmond

Nov 2025 – Dec 2025

- Complete website rebuild while retaining the existing architecture per the owners' requirements ([live site](#)).

### Stories In Film Co

#### Media Production Assistant

Cambridge

Jul 2020 – Dec 2024

- Development of 'The Bloodstock Bulletin' horse racing podcast with personal responsibility for audio editing and composition.
- Various support roles for film shoots including events at Cambridge University and Tattersalls Ltd.

## Projects

### Dissertation

- Developing and conducting comparative analysis on current industry-standard satisfiability (SAT) solvers for instances of conjunctive normal form (CNF) formulas ([repository](#)).

### SimpleWarden

- Personal project aiming to combine [Bitwarden](#) and [SimpleLogin](#) to ensure that email aliases stored on both platforms are always synced across both services.

### Audiovisual Processing

- Trained a convolutional neural network to predict spoken English names in real-time by combining audio features (MFCCs) and visual data (lip movements).

### Networks

- Responsible for security in a group-developed proprietary VoIP software, including key exchange and data encryption for confidentiality, hash functions for data integrity, and authentication tokens for user verification.

### **Analogue and Digital Electronics**

- Engineered a traffic light controller incorporating light decoder, state machine controller, pedestrian delay timer modules, vehicle sensor integration and more.
- Built an AM audio communication system, including frequency analysis, transmitter circuit design, and receiver construction on a PCB, with a copper tube as the transmission medium.

### **Web Development**

- Team leader in developing a parking management website that streamlines space allocation across university parking facilities.

### **Graphics**

- Created a custom 3D engine with OpenGL and FreeGLUT that renders a ferris wheel in a 3D space.
- Features included user-controlled ferris wheel animation, multiple cameras with first-person controls, octree-based collision detection and OBJ importation.

### **Skills & Interests**

**Technical:** Java, Python, C, C++, HTML, CSS, JavaScript, MATLAB.

**Time Management** Balanced exams, coursework, dissertation, lectures, part-time job, and extracurriculars.

**Collaboration** Experienced in teamwork through academic projects, internships, and work roles.