

# Jack Bond-Preston

Website: [jackbondpreston.me](http://jackbondpreston.me)  
Email: [jackbondpreston@outlook.com](mailto:jackbondpreston@outlook.com)  
LinkedIn: [jack-bond-preston-922706150](https://www.linkedin.com/in/jack-bond-preston-922706150)  
GitHub: [github.com/jackbondpreston](https://github.com/jackbondpreston)

## EDUCATION

---

### University of Bristol

BSc in Computer Science (1st Class Hons).

Bristol, UK

2017–2020

## EXPERIENCE

---

### Arm

Graduate Embedded Software Engineer in Open Source Software Group

Cambridge, UK

2021–Current

- Working as a member of the kernel team, porting low-level software to the Morello platform.
- Producing patches as part of a project porting the open-source musl C standard library implementation to a new prototype platform.
- Developing knowledge of general Armv8-A architecture, as well as Morello (CHERI) extensions.
- Creating a minimal test distribution of Linux for use on an Arm Fixed Virtual Platform

### Arm

Embedded Software Intern in Open Source Software Group

Cambridge, UK

Summer 2020

- Worked as part of the team on the Trusted Firmware A project.
- Contributed a series of patches for a new CMake-based build system for the project.
- Provided code review on patches by other team members.

### University of Bristol

Teaching Assistant in Department of Computer Science

Bristol, UK

2019–2021

- Delivered and created content for several Computer Science courses, including content involving operating systems, concurrency, and a software engineering project.
- Provided guidance and troubleshooting assistance to students in both in-person and online lab sessions, including for a course in which students develop a basic Armv7-A multitasking kernel.
- Participated in running viva-style coursework assessments for students, and subsequent coursework marking.
- Assisted with the creation and improvement of lab sheets (including skeleton and solution code).

### Potato (through University of Bristol)

Software Engineer for university group project

Bristol, UK

2018–2019

- Created a web-based library management system for Potato, a company in Bristol.
- Developed a MySQL/Spring Boot + Vue.js based web application, utilising an Agile workflow.
- Team won the award for best group project, achieving the highest mark for the unit.

## SKILLS

---

- **Low-Level Software & Architecture:** C, C++ (inc. 11/17/20 standards), Armv7/8/9, RISC-V, CHERI
- **Web Development:** HTML5, Modern CSS, ECMAScript 2015+ & Typescript, Vue.js, Spring Boot
- **Teaching:** Experience as teaching assistant, coursework assessment, classroom assistant

## LANGUAGES

---

- **English:** Native speaker
- **German:** CEFR A2/B1 (Elementary/Low Intermediate)