Jack Bond-Preston

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EDUCATION

University of Bristol   Bristol, UK
BSc in Computer Science (1st Class Hons).   2017–2020

EXPERIENCE

Arm   Cambridge, UK
Graduate Embedded Software Engineer in Open Source Software Group   2021–Current

- Porting low-level software to the Morello (CHERI) platform.
- Producing patches as part of a project porting the open-source C standard library implementation musl to a new prototype platform.
- Ported larger components of the C library, including the memory allocator and POSIX threads.
- Creating a minimal test distribution of Linux for use on an Arm Fixed Virtual Platform.

Arm   Cambridge, UK
Embedded Software Intern in Open Source Software Group   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   Bristol, UK
Teaching Assistant in Department of Computer Science   2019–2020

- 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)   Bristol, UK
Software Engineer for university group project   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.
- Won the team 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 marker

LANGUAGES

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