

# HARINI SRITHARAR

[GitHub](#)[Email](#)[LinkedIn](#)[Portfolio](#)

**About Me** Enthusiastic third year student seeking a 6-month industrial placement in software development. Passionate to advance my programming skills, gain experience and create efficient solutions to real world problems.

**Education** **Imperial College London**  
**MEng Computing (Management and Finance)** Oct 2022 - June 2026  
Predicted: 1<sup>st</sup> Class Honours  
Demonstrated excellent time management skills to meet demanding coursework deadlines. Gained proficiency in Haskell, Kotlin, Java, C and Scala via a combination of weekly projects, exams and collaborative team projects.

**Projects** **Designing for Real People : StudyPal (Kotlin)** May 2024 – June 2024  
Developed an Android application as part of a university group project that students can use to curate a personalized revision timetable, adapting to changing commitments.  
Features include auto-scheduling, progress tracking, dynamic rescheduling + gamification to maintain engagement.

**WACC Compiler (Scala)** Jan 2024 – Mar 2024  
Constructed a full compiler for a basic language called WACC. We implemented language extensions such as C-style macros and multiple file imports using Scala; as well as garbage collection and managed heap using C.

**ICHack24 (React, CSS)** Feb 2024  
Developed a front end, as part of a hackathon project, for a teaching methodology that allows hardware and software to be combined to enhance the ways that young children can learn.

- Used React to create an interactive platform for teachers to submit and navigate through lessons
- Used REST API to dynamically fetch information used on the front end from the backend

**Pintos Operating System Imperial College Edition (C)** Oct 2023 – Dec 2023  
OS written in C for the 80x86 architecture, features we added were:

- Implemented thread scheduling, priority donation and a MLFQ to reduce the average response time for jobs.
- Added support for user programs by allowing ELF binaries and system calls to be processed.
- Implemented support for virtual memory, utilizing paging, swapping, memory mapping & dynamic stack growth.
- Identified and prevented deadlocks when implementing concurrency

**Portfolio Website (React, HTML, CSS)** Aug 2023 - Present

- Designed and developed an interactive website serving as a dynamic portfolio

**Audio Visualizer (C)** June 2023

- Designed the UI for a program written in C providing a complete visualisation of any provided audio file.
- Utilized the GTK library to craft and deploy custom front end widgets, which dynamically adapt to real-time backend data inputs.

**Revision Quiz App (Dart)** Sep 2021- May 2022

- Independently designed and programmed a quiz app, addressing scarcity of interactive resources for students
- Self-acquired proficiency in the Dart programming language and employed the Flutter framework to create an app with an engaging user interface.
- Utilized Firebase Cloud Firestore for seamless user authentication and efficient storage of user and quiz data.

**Extracurricular** **DoCSoc Lead Front-End Developer** July 2024 – Present  
Developing both internal tooling and participant-side websites using Nuxt.js, for ICHack25: Europe's biggest student run hackathon.

**Baking Society Editor** Oct 2023 – June 2024  
Created + maintained a communal recipe blog using React and Firebase to share baking recipes amongst members of the society.

**Computer Science Tutor** Oct 2022 – Present  
Organise and plan 1-1 sessions with GCSE and A Level students to offer support in consolidating subject content and refining exam technique.

## Skills

- Dart + Flutter Framework
- JavaScript + React
- Vue and Nuxt.js
- Python
- Java
- Git
- Software and App Development
- Web Development
- Leadership
- Communication
- Technical Writing
- Time Management