HARINI SRITHARAR
MENG COMPUTING

About Me

Enthusiastic second year student studying Computing at Imperial College London. Passionate to advance my programming skills, gain experience via an internship and create efficient solutions to real world problems.

Education

Oct 2022 - June 2026

Imperial College London
MEng Computing (Management and Finance)
Demonstrated excellent time management skills to meet demanding coursework deadlines.
Cultivated proficiency in Haskell, Kotlin, Java, C and Scala via a combination of weekly projects, semester exams and collaborative group projects.

Projects

Jan 2024 - Present

WACC Compiler
Language: Scala
Compiler written for a basic language called WACC.
- Includes support for parsing identifiers, expressions, statements, loops, arrays and functions.

Feb 2024

ICHack24 (Hackathon)
Languages: React, CSS
Developed a front end 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

Oct 2023 – Dec 2023

Pintos Operating System (Imperial College Edition)
Language: C
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 running 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 mapped files and dynamic stack growth.
	Aug 2023	**Portfolio Website** **Languages: React, HTML, CSS** - Designed and developed an interactive website serving as a dynamic portfolio. - Harnessed the capabilities of React alongside CSS to craft a website that serves as a testament to my web development capabilities.
	June 2023	**Audio Visualiser** **Language: C** - 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.
	Sep 2021- May 2022	**Revision Quiz App** **(A Level NEA Project)** **Language: Dart** - Independently designed and programmed a quiz app, addressing the scarcity of interactive revision 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. - Gathered enthusiastic feedback amongst target audience.

Extracurricular	Oct 2023 – Present	**Baking Society Editor** Creating + maintaining a communal recipe blog using React and Firebase to share baking recipes amongst members of the society.
	Oct 2022 - Present	**Computer Science Tutor** Organise and plan 1-1 sessions with GCSE and A Level students to offer support in consolidating subject content and refining exam technique.