

# Anand Doshi

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## Education

### MEng, Computing, Imperial College London

2020 – 2024

- 1<sup>st</sup> Year: Achieved an 85% average, awarded a place on the Dean's List.
- Relevant modules: Software Engineering Design, Algorithm Design and Analysis, Operating Systems Graphs and Algorithms, Reasoning about Programs, Compilers.

### Indian School Certificate, SVKM's C.N.M. School, Mumbai

2018 – 2020

- Received a 98% overall in final exam with 100% in Computer Science, Math and Chemistry.

## Work Experience

### Summer Technology Intern – 3forge (Java, Python, SQL)

2022

- 3-month summer internship at 3forge, a real time data streaming service providing platform
- Collaboratively developed features for core product for data visualization– AMI One.
- Conducted testing of core product and bug reporting for quality analysis.
- Provided tech support to clients and diagnosed errors and difficulties faced by them while using the product.
- Designed and developed a carbon intensity dashboard depicting carbon intensity in the UK and US.

### Vasuki Website Redesign (PHP, JS, HTML)

2021

- Revamped the front-end of the existing Vasuki Tech Fund (set up by Rothschild & Co.) website with a new, modern design.
- Handled back-end interfacing with the CodeIgniter framework, while working with a MySQL database.
- Set up a new server with Heroku for development and staging, along with a PostgreSQL database.

### Dental Clinic Patient Management Software (Java)

2019 – 2020

- Devised an easy-to-use tool to schedule appointments and keep track of patient records.
- Designed a rich and intuitive GUI for better usability using the JavaFX library.

## Projects

### “bookswapp” - Designing For Real People (Kotlin + Android, Java)

2022

- Devised and developed a book sharing platform mobile application.
- Implemented feedback from potential users to improve functionality and useability
- Utilised core principles in the design process:
  - Context research
  - Prototyping
  - Thin slicing development

## WACC Compiler (Scala)

2022

- Compiler frontend: parsing, lexing and constructing intermediate representation.
  - Parsed and performed lexing using a Parser combinator library
  - Constructed an AST for the intermediate representation for code generation in the backend.
- Compiler backend: Code generation in ARM assembly.
- DevOps: testing and building pipeline developed.

## Pintos Operating System (C)

2021

- Design and implement various features of an operating system in a group:
  - Threads and scheduling
  - User program interactions
  - Virtual memory
- Using Git within a team effectively.

## ARM Emulator and Assembler (C)

2021

- Implemented an emulator based on the ARM 11 instruction set in a group.
- Designed and implemented a system of registers, memory and an ALU to run various types of instructions.
- Built an assembler to enable encoding higher level instructions into binary.

## Skills

- Proficient in **Java**, over 5 years of experience.
- Other familiar programming languages: **Haskell, Kotlin, C, Python, PHP**.
- Developing mobile applications for **Android**.
- Familiar with Web Development: **HTML, CSS and JavaScript languages and Bootstrap, jQuery**.
- Bilingual: English and Gujarati (Indian vernacular).

## Extra-Curricular Activities

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|--|-----------|
| • Technology Officer at Imperial College Science Fiction and Fantasy Society           | 2021-2022 |
| • Completed course Introduction to Environmental Economics at Imperial College London. | 2021      |
| • Participated in Cambridge Hex Hackathon.   | 2020      |
| • Represented home state in an All-India National Quiz (ASISC).                        | 2019      |
| • Arranged Math Exhibition at school as Organisation Committee member.                 | 2019      |
| • Designed a Rube Goldberg Machine as inaugural event for Math Exhibition.             | 2019      |

## Interests

- Reading: Young Adult, Romance
- Writing: Fanfiction
- Stranger Things aficionado.

Letters of Recommendation available on request