

Aaryan Pagar

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A self-motivated digital innovator with a keen knack for computer science and investment strategies. Driven by persistence, a visionary of the alliance between the extensibility of traditional disciplines involving edtech and fintech and the transcendence of trailblazing technologies including ubiquity, web3 and neural networking. I also love kebabs.

Education

- **CODE University of Applied Sciences (Germany) (2021-2023)**

Candidate for B.Sci Software Engineering | Coursework: Automated Software Testing | Collaboration | Concepts of Programming Languages | Web Frontend and Backend | Business Intelligence and Analytics

- **University of Glasgow (United Kingdom) (2020 - 2021)** GPA: 21/22

Candidate for M.Sci Software Engineering (FR) | Coursework: Computing Fundamentals, Systems Engineering, Java Programming, Algorithmic Foundations, Web Application Development, Networks and Operating Systems Essentials, Algorithms and Data Structures, Object-Oriented Software Engineering

- **Kodaikanal International School (India) (2018 - 2020)** GPA: 3.91/4.0

International Baccalaureate Diploma Programme - 40/45

Experience

- **SplendEd | Full-Stack Developer | (February 2022 - Present)**

- Responsible for the product engineering of a pioneering edtech startup that aims at revolutionising digital education for International Baccalaureate students based in the DACH region.
- Worked as a colead developer alongside an effective dev team to build a fullstack web application using modern JavaScript frameworks such as React, Node and Nest. Coordinated tasks with an architectural team to implement containerized relational DBs to try and reduce hosting costs by 20%.
- Provided constructive feedback to business operations that was critical in modifying the pitch deck of an early startup. The feedback included a realistic translation of business logic into technology as well as improvements on UI/UX mockups that helped the firm to close deals on almost a 100% of all the approached customers.

- **Mindler | Research and Software Intern | (March 2021 - June 2021)**

- Proactively formulated and executed two separate projects for one of India's largest career counselling firms.
- Worked alongside a team of senior developers on a Python codebase to optimize the automated collection and organization of 100s of GB of data pertaining to the admission procedures for colleges within a dynamic SQL RDMS.

- Evaluated the heuristical requirements of various user groups and stakeholders and finalized key insights to rearchitect the firm's service website, consequently increasing user retention by over 40%.

Projects

- **Kiwi - Android App Development (October 2019 - March 2020)**

- Studied the shortcomings of a typical high school student in managing and coordinating their schoolwork to create a virtual learning environment delivered as an android mobile application.
- The app allows students to organize classrooms and set deadlines for assignments and tests among other features that are crucial for generating a systematized approach to learning.
- Java, Kotlin, XML, Android Studio.

- **VoucherMe - Web App Development (January 2021 - April 2021)**

- Developed a social marketing website as part of a small but diverse team for businesses to digitally post about available schemes, offers, promocodes, etc.
- Conducted numerous rounds of usability testing to evaluate the correlation between consumer engagement and marketing strategies.
- Django, Python, Javascript, JQuery, AJAX, HTML, CSS.

Research

- **Sorting Algorithms**

- Implemented insertion sort, merge sort, radix sort and 4 variants of quicksort in Java. Ran empirical studies with varying implementation methods and data set sizes to understand the underlying semantics and differences in time-space complexities, particularly for linear running times ($O(n)$).
- Compiled an evaluative report based on the organization and handling of big data that was published on the University's REF platform.

- **Visitor Design Patterns**

- Implemented concrete detectors that traverse a JavaParser generated AST using the visitors design pattern to locate useless control flows along with polymorphic recursive structures within an input code fragment.
- Used the data returned by the detectors to effectively optimize large code bases running on remote servers by locating relevant logical processes and reducing their resource intake by 30%.

Skills & Honors

- **Programming/Software & Framework/Markup**

Java, Python, Javascript, C#, Kotlin, Assembly, SQL

Django, React, Node, JQuery, AJAX, Tailwind, Workbench, Android Studio, GitHub

HTML, CSS, XML, Latex, Markdown

- **Business & Product Development**

Usability Heuristics | Big Data Analysis | Solution Architecture | CRM | International Business Development | Consumer Research | KPIs | Requirement Analysis | Strategic Product Management

- **Honors**

GUTS Code Olympics 2020, Rank 7 of 160

HackerRank HackFest 2020, Top Decile

Google Kick Start E 2020, Top Octile