Eshan Chatterjee

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Summary

I am a Software Developer possessing a proficiency, with a primary focus on *C/C++* and *Rust*, where I have cultivated an extensive expertise. Furthermore, I maintain an intermediate level of competence in *Go*, *Python*, *JavaScript | Typescript*, **C#** and *Java*. With hands-on experience in *Docker, Postman, Linux, git, wasmer, sqlite, mysql, node , .NET, .NET MAUI, Cordova and scripting.*

In Rust, I have specialized skills encompassing various domains. This includes proficiency in WebAssembly (WASM) bindgen and Node Api Integration, facilitating seamless integration between *Rust* and *web technologies*. I have also worked on optimizing networking API that handle file I/O operations, and **Mobile** application development using *.NET MAUI* and *Dart* and *Cordova*.

Work Experience

- **Maventic Innovative Solutions** as a Software Developer.   02/2023 - present
  - I engineered a high-performance library, foreseeing its pivotal role in our Internal Tool. This endeavor aimed to revolutionize our data processing and analysis capabilities, resulting in heightened productivity and enhanced decision-making capabilities for our team.
  - Orchestrated a seamless and highly efficient integration of a high-performance library into an Internal Tool, resulting in a 40% reduction in processing errors and improving overall system stability and performance.
  - Conceptualized and developed an internal automation tool with the primary objective of expediting the generation of boilerplate code. This sophisticated solution not only streamlined the process but also contributed to a notable increase in overall productivity and efficiency within the software development workflow.
  - I led a transformative optimization initiative within our Internal Tool, achieving an impressive 15% acceleration in data processing. This feat resulted from strategic code refactoring and precision-tuned algorithm enhancements, leading to substantial time savings and a remarkable boost in operational efficiency.

- **Accenture Nordic** as a Developer Intern   07/2022 - 09/2022
  - Acquired invaluable insights into cutting-edge technologies and industry best practices during my tenure at Accenture Nordic as a Developer Intern through their Virtual Programs.
  - Developed a profound understanding of software development methodologies and tools utilized in the professional landscape as a result of this experience.
  - Collaborated with a diverse team of professionals, leveraging collective knowledge to drive innovative solutions and deliver high-quality results.

- **Open Source Contributions**
  - Cppfront: An open experiment that tries to update the syntax of C++. My contributions bring in ideas on the implementations.
  - rustlings: An tutorial application that gives hands-on experience in the Rust Programming Language. My contribution being in entry level problems.

Projects

- **Clima**

  This is a mobile Weather app made with *C# and .NET MAUI.* It uses the Open Weather Api to fetch the Weather Information off of the Internet.

- **Conference**

  A companion mobile app for a conference, made using *.NET MAUI*.

- **Shutter**

  A Mobile app made with *Dart* that serves as a portfolio for my Photography Hobby. Using *Dart's* Native widgets and some custom made ones as well.

- **Sparrow**

  A compiler for a stack based programming language reverse engineered from Fourth in *C++.*

- **Oxygen**

  At some point of time I got tired of using Post-It notes for every other thought, when I was doing something. This led to me making a Voice Journal App, where I can easily record an Idea or Task and quickly go back to my workflow, without leaving the Terminal.

- **AQI Tool**

  A Tool that fetches the AQI of a Location using the api provided by *Air Quality Open Data Platform.* This was one of my first few applications I wrote to understand the *Rust Ecosystem.*

- **Robin**

  A rudimentary web browser engine capable of rendering HTML and CSS. The rendered page can be saved as a *png* and or a *pdf* . I wrote it with *Rust.* My main goal with this project was to understand how browsers render html.

Education

- *B. Tech* in *Computer Science and Engineering*   2019-2023

    B.P. Institute on Management and Technology   CGPA: 9.0

- Aditya Academy Senior Secondary
  - 12th Standard   GPA: 7.2   2019
  - 10th Standard   GPA: 6.6   2017

Interpersonal Skills:

- *Communication*: Effectively conveyed technical ideas and solutions to team members and stakeholders.
- *Emotional Intelligence*: Fostered positive working relationships and understood the needs and perspectives of colleagues.
- *Self-Awareness*: Continuously sought personal and professional growth opportunities to enhance skills and knowledge.
- *Patience*: Maintained composure in challenging situations, ensuring a productive work environment.
- *Collaboration*: Actively engaged in cross-functional collaboration, contributing to successful project outcomes.
- *Accountability*: Took ownership of tasks and projects, ensuring they were completed on time and to the highest quality standards.
- *Adaptability*: I thrive in a rapidly changing tech landscape, staying updated with industry trends and emerging technologies.