Eshan Chatterjee

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Summary

- Highly motivated and proactive learner
- Genuine passion for technology and innovation
- Proficient in programming, specializing in C/C++ and Rust
- Strong project expertise in technologies like WebAssembly and .NET MAUI
- Dedicated to continuous learning and skill expansion

Technical Skills

I possess 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 *Python*, *JavaScript | Typescript*, **C#** and *Java*. With hands-on experience in *Docker, Postman, 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

- **Accenture Nordic** as a Developer Intern.
  - 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.

- **Maventic Innovative Solutions** as a Software Developer.
  - 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.
  - 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.
  - These experiences not only enriched my technical skill set but also significantly impacted our team's workflow and overall efficiency, emphasizing the value of innovation and strategic thinking in software development and data analysis.

- **Procify Innovation** as a Software Developer.
  - Spearheaded the development of a high-performance library essential to an Internal Tool, orchestrating a seamless and highly efficient intercommunication framework. This innovative solution not only streamlined data transfer but also optimized the entire communication process, setting new standards for operational efficiency between the private network and server systems.
  - 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.

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.
- **[Xylophone](#)**
  A Mobile game made with *Dart*. It is a xylophone where you can make music.
- **[Sparrow](#)**
  I was having some trouble understanding Compiler Design, so to understand it a bit better I decided to reverse engineer 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*
  B.P. Institute on Management and Technology   CGPA: 9.0