Rajveer Singh Bharadwaj

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Open Source Enthusiast Seeking Full Time Opportunities

Experience

Fidelity Investments, *Software Developer Intern* | FCAT | Bangalore   *May 2023 - Jul 2023*
- Integrated a Unified Observable solution for **Green Meadows** Databases. **GitHub> Gist**
- Analysed and Visualized **Mongo's** Full Time Diagnostic Data - **FTDC Metrics**.
- Tech Stack: Go, Mongo, AWS S3. Grafana, Snowflake, Python, JavaScript, Git, Bash.

Apple Open Source - Swift, *Swift Compiler Contributor* | Remote   *Dec 2022 - Present*
- Added unimplemented **expression cases** in the **ASTPrinter**. **GitHub> PR**
- Improved out-of-place **Binding Diagnostic** reflecting 'var' or 'let' **Binding Pattern**. **GitHub> PR**
- Improved **Cast and Coercing** Diagnostics when **Literals** are involved. **GitHub> PR**

LLVM Open Source, *LLVM Compilers Contributor* | Remote   *Sep 2023 - Present*
- Fixed **_CopySegment** helper in **ranges::copy** making it **constexpr**-friendly. **GitHub> PR**
- Fixed crashing strict **assertions** in **compiler** source **GitHub> PR**

Rust Open Source, *Rust Compiler Contributor* | Remote   *Sep 2023 - Present*
- Improved **compiler** suggestion when using '**unstable**' rust features. **GitHub> PR**

Education

(UG)	**B.Tech in Computer Science and Engineering**, *Bangalore Institute of Technology*	Bangalore, India	*2020-24*
(HS)	**Higher Secondary Education**, *Delhi Public School North Bangalore*	Bangalore, India	*2018-20*

Achievements

2022	**World Rank 1709 (AIR 389) in Google CodeJam Round 1C**, Google's Coding Competitions	*Link>Cert*
2022	**World Rank 1183 (AIR 857) in Google KickStart Round G**, Google's Coding Competitions	*Link>Cert*
2021	**World Rank 2833 in Meta HackerCup Round 2**, Meta's Coding Competitions	*Link>Cert*
Active	**Specialist on CodeForces (Rating 1400+), Active on Top Platforms**, Competitive Programming	*Link>Profiles*

Skills

Programming	C++, Swift, Rust, Python, C#, Bash, Git, CMake, Ninja, Clang, LLVM, Vim, Compilers.
iOS Dev Tools	SwiftUI, UIKit, Foundation, Combine, ARKit, Vision, CoreLocation, MapKit, CocoaPods, FireBase, SwiftPM.
Unity Dev Tools	Game ToolKits, Animation, Physics, Particles and Effects, Sprites, GUI, AV, Design, Visual Scripting.
Developer Tools	Unix, macOS, Terminal, Xcode, Unity, HomeBrew, Rider, CLion, Rust Rover, PyCharm.

Projects

Crypto Tracker - iOS   *Q4 - 2023*
Visualise Live Crypto Price Charts With Comprehensive Overview, SwiftUI iOS App   *GitHub>Link*
- A Crypto Currency App tracking **live data** via third-party **API** with user portfolio.
- Dynamic **Chart Detail** utilising SwiftUI with **Combine** and **CoreData** for data **persistence**.
- Appealing visuals, **animations** and **core** functionality with great **UI** experience.

Landmarks - iOS   *Q1 - 2023*
Discover Live Map Locations and Share The Places You Love, SwiftUI iOS App   *GitHub>Link*
- Rich and **dynamic** views to share live and **featured map** locations with SwiftUI.
- Expressive shaped **badges** for visited places with **CoreGraphics** and **MapKit**.
- **Animated charts** of hike data by using detailed **metrics** and filters.

Space Shooter 2D - Unity   *Q3 - 2023*
Classic Space Shooter 2D Game With Cinematic Effects, Unity Cross-Platform Game   *GitHub>Link*
- Compelling **2D space** shooter **game** with **C#** and **Unity** game engine.
- Utilising physics, **particles** and **collider** effects for **enemies** and **power ups**.
- Functional game **logic** using **visual scripting** with immersive user experience.

Unix 'minigrep' - Rust   *Q3 - 2023*
Mini Version of the Unix Command Line Tool 'grep', Rust Command Line Tools   *GitHub>Link*
- Classic **CLI Tool** 'grep' built using Rust's **safety**, speed and concurrency.
- Searches **regex** patterns and **strings** by passing **arguments** with options.
- Uses **#cfg tests** for test driven **development** and **cargo** check.

Competitive Programming - Templates   *Q1 - 2023*
Custom Competitive Programming Templates, C++/Rust Template Programming   *GitHub>Link*
- Implementation of **data structures** and **algorithmic** templates with C++ and Rust.
- Segment **Trees**, **Modular** Integer, **Combinatorics**, Disjoint **Set** Union and many more.
- Utilises **Generics** and **optimised** logic for fast **computations** in heavy input data.