Rajveer Singh Bharadwaj
+91 9742713006 | rajveer.developer@icloud.com | github.com/Rajveer100 | linkedin.com/in/rajveer-singh-bharadwaj-5504b31a4 Open Source Enthusiast Seeking Full Time Opportunities

open source Entrasiast seeking rati Time opportunities	
Experience	
 Fidelity Investments, Software Developer Intern FCAT Bangalore 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. 	May 2023 - Jul 2023
 Apple Open Source - Swift, Swift Compiler Contributor Remote 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 	Dec 2022 - Present
 LLVM Open Source, LLVM Compilers Contributor Remote Fixed _CopySegment helper in ranges::copy making it constexpr-friendly. GitHub> PR Fixed crashing strict assertions in compiler source GitHub> PR 	Sep 2023 - Present
 Rust Open Source, Rust Compiler Contributor Remote Switch from using // ERROR annotations with -error-format to error-pattern GitHub> PR 	Sep 2023 - Present
Education	
 (UG) B.Tech in Computer Science and Engineering, Bangalore Institute of Technology Bangalore, India (HS) Higher Secondary Education, Delhi Public School North Bangalore Bangalore, India 	2020-24 2018-20
Achievements	
Active Active Specialist Amritapuri Region, '@MainActor', ACM International Collegiate Programming Contest (ICPC) Active Specialist on CodeForces (Rating 1400+), Active on Top Platforms, Competitive Programming World Rank 1709 (AIR 389) in Google CodeJam Round 1C, Google's Coding Competitions World Rank 1183 (AIR 857) in Google KickStart Round G, Google's Coding Competitions World Rank 2833 in Meta HackerCup Round 2, Meta's Coding Competitions	Link>Cert Link>Profiles Link>Cert Link>Cert Link>Cert
Programming iOS Dev Tools Developer Tools Developer Tools C++, Swift, Rust, Python, JavaScript, Bash, Git, CMake, Ninja, Clang, LLVM, Vim, Compilers. SwiftUI, UIKit, Foundation, Combine, ARKit, Vision, CoreLocation, MapKit, CocoaPods, FireBase, SuiftUI, UIKit, Foundation, Combine, ARKit, Vision, CoreLocation, MapKit, CocoaPods, FireBase, SuiftUI, UIKit, Foundation, Combine, ARKit, Vision, CoreLocation, MapKit, CocoaPods, FireBase, SuiftUI, UIKit, Foundation, Combine, ARKit, Vision, CoreLocation, MapKit, CocoaPods, FireBase, SuiftUI, UIKit, Foundation, Combine, ARKit, Vision, CoreLocation, MapKit, CocoaPods, FireBase, SuiftUI, UIKit, Foundation, Combine, ARKit, Vision, CoreLocation, MapKit, CocoaPods, FireBase, SuiftUI, UIKit, Foundation, Combine, ARKit, Vision, CoreLocation, MapKit, CocoaPods, FireBase, SuiftUI, UIKit, Foundation, Combine, ARKit, Vision, CoreLocation, MapKit, CocoaPods, FireBase, SuiftUI, UIKit, Foundation, Combine, ARKit, Vision, CoreLocation, MapKit, CocoaPods, FireBase, SuiftUI, UIKit, Foundation, Combine, ARKit, Vision, CoreLocation, Rust Rover, PyCharm.	SwiftPM.
The Eva Programming Language - LLVM Compilers	01 2024
Built a programming language from scratch with LLVM Compilers Infrastructure, C++/CMake/LLVM • Working on building a low-level programming language with LLVM IR. • Production-level language features like functions/closures, lambdas and OOPs classes. • Branch instructions, flow control and code generation with final executable.	Q1 - 2024 GitHub>Link
Recursive Descent Parser- Parsers/AST	Q4 - 2023
 Implemented Recursive Descent Parser from scratch for a full programming language, JavaScript/Node.JS RDP Parser built from scratch handling complex constructs during parsing process. Built tokenizer and parsing modules with generated Abstract Syntax Tree (AST). Recursive production rules to handle generic functions, implement classes and objects. 	GitHub>Link
The Eva Interpreter (S-Expressions) - Interpreters/Runtime Semantics	Q4 - 2023
 S-Expressions based Interpreter built from scratch focusing on runtime semantics, JavaScript/Node.JS JS-based implementation with elegant multi-paradigm structure and functional programming. Inheritance and prototype based OOPs with environments and nested scopes. User-defined and built-in native functions/lambdas with syntactic sugar for operators. 	GitHub>Link
Crypto Tracker - iOS	Q4 - 2023
 Visualise Live Crypto Price Charts With Comprehensive Overview, SwiftUI iOS App 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. 	GitHub>Link

Custom Competitive Programming Templates, C++/Rust Template Programming

Q1 - 2023

GitHub>Link

Competitive Programming - Templates

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.