

JASH AMBALIYA

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🔗 CodeChef | 🔗 LeetCode | 🔗 Codeforces | 📞 +91 8849066219

EDUCATION

Uka Tarsadia University (UTU), Surat, Gujarat, India 2023 – 2027 (Expected)
Bachelor of Technology in Computer Science and Engineering
CGPA: 9.07/10.0

OPEN SOURCE CONTRIBUTIONS

- SciML & JuliaLang Ecosystem** Julia, Mathematics
• **CurveFit.jl** [PR]
Integrated **StatsAPI** to expose critical statistical metrics (Variance-Covariance Matrix, Standard Error) for nonlinear least squares solutions, bringing feature parity with major scientific libraries.
- **Symbolics.jl** [PR]
Implemented an automatic translation layer to bridge **Symbolics.jl** with **SymPy**, creating wrapper functions that allow users to leverage SymPy's powerful solvers (integrals, limits) directly within Julia. (**Awarded \$300 Bounty**)
- **NonlinearSolve.jl** [PR]
Refactored automatic differentiation (AD) wrappers to improve compatibility with **DifferentiationInterface**, optimizing solver performance for complex numerical tasks.
- Flexile (Contractor Management & Payments)** Ruby on Rails, PostgreSQL
• **Payment Notification System** [PR]
Engineered a failure notification system that captures **WiseError** exceptions during payment processing and triggers automated, detailed email alerts to contractors, significantly improving transparency. (**Awarded \$2,500 Bounty**)
- **Payment Reconciliation** [PR]
Implemented logic to handle **Wise** payment refunds and dividend cancellations, ensuring the system correctly updates payment statuses from "processing" to "failed" when external cancellations occur. (**Awarded \$2,500 Bounty**)
- Coder (Cloud Development Environments)** Terraform, HCL
• **Registry Modules** [PR]
Developed and merged the **PGAdmin** module into the Coder Registry, allowing developers to deploy PostgreSQL administration interfaces instantly within their cloud workspaces. (**Awarded \$50 Bounty**)

TECHNICAL PROJECTS

- Group Policy Object manager for Windows - Smart India Hackathon 2024** [GitHub]
A Windows application developed to generate and manage customized Group Policy Objects (GPOs) aligned with CIS security benchmarks. Selected as a Finalist at Smart India Hackathon 2024.
.NET, C#, WPF

EXPERIENCE

- Technical Content Writer Intern**, GeeksforGeeks (Remote) March 2024 – March 2025
- Authored technical articles on **Deep Learning** and **Pandas**, breaking down complex engineering concepts for a global developer audience.
 - Refined existing documentation to improve technical accuracy, directly impacting the learning experience of thousands of readers.

AWARDS & ACHIEVEMENTS

- Global Rank 17** in CodeChef START156C (Div 3) among **3,873** contestants.
- Smart India Hackathon (SIH) 2024 Finalist**: Selected for the grand finale of India's premier hackathon.
- Global Rank 930** in AtCoder Beginner Contest 371 among **12,905** contestants.
- 5-Star Badge in C++** and **Problem Solving** Certification on HackerRank.
- University Rank 5** on GeeksforGeeks Institute Leaderboard.

TECHNICAL SKILLS

- Languages**: C++, Python, Julia, Ruby, JavaScript/TypeScript, SQL
- Core Concepts**: Data Structures & Algorithms, System Design, OOP, Statistical Computing
- Frameworks & Libraries**: React.js, Rails, TensorFlow, Git, Linux, Docker, Terraform