HARSH JHA

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Linkedin | GitHub | Portfolio | LeetCode

EDUCATION

Dr. A. P. J. Abdul Kalam Technical University　　　　　　　　　　　　Lucknow, India
Bachelor of Technology in Computer Science & Engineering　　　　　　　　　2021 - 2025

Air Force School　　　　　　　　　　　　　　　　　　　　　　　　　Kanpur, India
All India Senior School Certificate Examination　　　　　　　　　　　　　2019 - 2020

EXPERIENCE

Full Stack Developer Intern, Mavyax Tech Private Limited　　　*September 2024 - December 2024*

- Designed and developed backend applications using Node.js and Express.js, supporting 5+ client projects.
- Refactored and debugged legacy codebases, implementing 8+ new features and resolving critical stability issues, boosting uptime reliability.
- Architected and maintained relational databases with Prisma ORM, optimizing schema design for 50,000+ records and reducing query execution time by 30%

PROJECTS

Godly | Link　　　　　　　　　　　　　　　　　　　　　　　*January 2025 - April 2025*

- Developed a full-featured interpreter in C++ for the Lox language with lexical analysis, parsing, and runtime evaluation; enabled scripting with control flow and object-oriented constructs.
- Implemented key language features such as scoped variables, loops, functions, and object-oriented class structures with inheritance, allowing execution of complex Lox scripts.
- Optimized interpreter performance by refining tree-walk evaluation and memory management, improving execution speed by 20% over baseline benchmarks.

AnyWhere Notes | Link　　　　　　　　　　　　　　　　　　*July 2024 - September 2024*

- Built a modular backend using Node.js and TypeScript for a note management system, improving maintainability and supporting horizontal scalability.
- Designed RESTful APIs for note creation and management by integrating PostgreSQL with Prisma ORM, ensuring ACID compliance and reducing average query latency by 30%.
- Implemented JWT-based authentication for secure user sessions, preventing unauthorized access.
- Developed a fine-grained RBAC system supporting admin, editor, and viewer roles, enforcing least-privilege access across API endpoints.

SKILLS

Languages:	C++, JavaScript, TypeScript, HTML, CSS
Tools / Platforms:	AWS, Makefiles, Git, Node.js, Linux
Databases:	PostgreSQL, MySQL, NoSQL, MongoDB
Computer Science Fundamentals:	Design and Analysis of Algorithms, Data Structures, Operating Systems, Database Management Systems

ACHIEVEMENTS

TCS CodeVita Season 11　　　　　　　　　　　　　　　　　　　　*February 2024*

- **Achieved Global Rank 285** in Round 2 (Top 0.06% of 444,000+ participants), demonstrating advanced problem-solving skills in algorithmic and data structure challenges under time constraints

College Hackathon Winner　　　　　　　　　　　　　　　　　　　*November 2022*

- Secured **1st place** and **Rs 15,000** cash prize in a problem-solving competition among 900+ participants, showcasing expertise in rapid algorithm design and efficient code implementation under time constraints

CODING PROFILES

CodeForces　　　　　　　　　　　　　　　　　　　　　　*username: imtheonly1*

- Achieved the **Specialist** Rank with a maximum rating of **1437**, consistently ranking among contest performers.
- Tester for **Codeforces Round 1006**, contributing to problem validation and quality assurance, ensuring the integrity and challenge of the competition

CERTIFICATIONS

- The Hard Parts of Asynchronous JavaScript - **Frontend Masters**
- JavaScript: The Hard Parts, v2 - **Frontend Masters**
- Deep JavaScript Foundations, v3 - **Frontend Masters**

POSITION OF RESPONSIBILITY

President | AlgoClub   2023 - 2024

- Spearheaded the planning and execution of multiple hackathons and workshops as President of the AlgoClub, engaging 200+ participants and fostering technical innovation through hands-on coding challenges and collaborative problem-solving sessions