



Arjav Barya

Roll No.:2021ume0205

Mechanical Engineering

Computer Science Engineering (minor)

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Github | Website

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year of Passing
B.tech (ME)	Indian Institute of Technology, Jammu	8.27 (Current)	2025
12th Standard	Sharda Vidya Mandir	99.6%	2021
10th Standard	Sharda Vidya Mandir	97.4%	2019

EXPERIENCE

- Mapit.Ai (Front-end Intern, Remote)** (June 2024 - Present)
Developed a Comprehensive Data Processing and Visualization System
 - Built an ETL pipeline on AWS using services like S3, SQS, Lambda, and Glue. Built an ETL pipeline on AWS using services like S3, SQS, Lambda, and Glue.
 - Developed a front end for uploading large files and tracking progress.
 - Created an AWS Lambda algorithm to extract and process data using Glue.
 - Integrated APIs to enhance product functionality and user experience.
- BotMast (Front-end Intern, Remote)** (March 2024 - May 2024)
Developed the Front End for Real Estate CRM
 - Built the product from scratch using modern web technologies.
 - Used React JS, Ant Design, and Material-UI for a rich user interface.
 - Implemented Redux for effective state management.
 - Integrated APIs to enhance functionality and user experience.
- Diagonal Matrix (Development Intern, Remote)** (May 2023 - July 2023)
Developed the Front End for a Financial Crime Detection Firm
 - Collaborated with business teams to gather requirements and suggest improvements.
 - Identified and fixed bugs, refactored code, and optimized performance.
 - Wrote and executed test cases, integrated third-party APIs, and developed databases.
 - Built rich user interfaces and developed server-side logic.
 - Explored the use of Low-Code/No-Code Platforms in modern technology.

PROJECTS

- Food-App Food Ordering Platform** June. 2024
Developed a comprehensive food ordering platform using the MERN stack. Github
 - Enabled customers to browse menus, place orders, and make payments.
 - Implemented an admin panel for managing menu items, user roles, orders, bookings, and accounts.
 - Leveraged React-Query, Tailwind CSS, React Hook Form, Stripe for payments, and Firebase for authentication.
 - Ensured responsiveness across all devices for an optimal user experience.
- DevHub E-commerce Platform** Nov. 2023
Engineered an e-commerce platform from scratch using React, Node.js, MongoDB, and Redux. Github
 - Designed a robust database architecture for efficient data storage and retrieval.
 - Developed an intuitive admin panel for managing client interactions, inventory, orders, and administrative tasks.
 - Integrated Razorpay for secure and seamless payment processing.
 - Utilized Redux Toolkit for centralized state management, enhancing scalability and data flow control.
 - Created rich user interfaces and developed server-side logic.
- Passenger-Re-Accommodation-Problem** Nov. 2023
Optimized Passenger Re-Accommodation Algorithms for Enhanced Travel Experience Github
 - Formulated algorithms to prioritize PNRs based on passenger class, loyalty, and special status, considering future flights.
 - Developed two optimization algorithms: one for maximizing seat reallocation by flight priority, and another for minimizing passenger discomfort.
 - Designed a network flow graph model for alternate flights, including both direct and connecting options.
 - Implemented a solution ranking mechanism to measure passenger satisfaction through seat changes and total travel time.
 - Achieved a 90% success rate in passenger rescheduling across multiple test cases.

- **Vehicle Routing Solver for "Last-Mile Delivery"**

Dec. 2022

Github

- Created a solver to optimize delivery vehicle routes, considering capacity limits and dynamic pickup points.
- Integrated Google Maps API and Distance Matrix API to calculate optimal routes for over 2000 addresses.
- Employed advanced algorithms like Clarke and Wright Saving Algorithm and graph theory for optimal routing..
- Leveraged Google OR Tools to further enhance the routing solver's performance and functionality.

KEY COURSES TAKEN

- Data Structure,Algorithms,DBMS,Design and Analysis of Algorithms,Computer and Programming,AI

TECHNICAL SKILLS

- **Programming:** C, C++, Python,SQL
- **Tools & OS:** Git, Jupyter Notebook,Google Colab, Windows, MySQL,ImageJ, SolidWorks
- **Libraries/Frameworks:** TensorFlow, PyTorch, NumPy, Pandas
- **Web Skills:** HTML, CSS, Javascript , ReactJS , MySql, MongoDB, Node.js, Express.js, Redux, Axios.
- **Cloud:** Amazon Web Services(AWS)

PROGRAMMING SKILLS

- **700+ questions solved on Leetcode with a contest rating of 1693 (id-leetcode.com/ArjavBarya0809).**
- **250+ questions on CodeForces with contest rating of 1000+ (id-codeforces.com/arjavbarya).**
- **Organized and mentored in various programming contest .**

POSITIONS OF RESPONSIBILITY

- **Deputy Contingent Leader**,Inter IIT Techmeet 12.0 2023
- **Co-Head**, Competitive Coding Department, Coding Club, IIT Jammu 2022-2023
- **Event Mentor**, Algobash 2.0 ,Coding Club, IIT Jammu 2024
- **Event Head**, Algobash 1.0 ,Coding Club, IIT Jammu 2023
- **Event Head**, Renao 2022, IIT Jammu 2022

CERTIFICATIONS

- Stanford Online: Supervised Machine Learning (Regression and Classification).
 - Stanford Online: Advanced Learning Algorithms.
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