Mohit Sirova

Graduated
Department of Electrical Engineering

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Academic Qualifications

Year	Degree/Certificate	Institute	CPI/%
2022	B.Tech	Indian Institute of Technology, Kanpur	6.8
2017	RBSE(XII)	Prince School, sikar	90.6%
2015	RBSE(X)	Nehru Ball Vidhya Mandir school,Rasulpur	85%

Work Experience

- **Backend developer at Cardekho(1 Year)**
  – Leveraged practical expertise in backend development to contribute to Car Dekho's projects.
  – Successfully applied new technologies and methodologies, continuously expanding knowledge base.
  – Proficiently utilized Node.js, SQL, Express, JavaScript, Bitbucket, and PHP in development tasks.
  – Collaborated with cross-functional teams to deliver high-quality software solutions.
  – Demonstrated problem-solving skills and an analytical mindset to tackle complex backend challenges.
  – Ensured code efficiency, scalability, and security in all backend implementations.
  – Demonstrated ability to meet deadlines and deliver projects within specified timelines.

Key Projects

- **Home Auction (Company Project)**
  – Developed and implemented robust and scalable RESTful APIs using Node.js for a project.
  – Designed and optimized database queries, and performance optimizations using SQL.
  – Utilized Express.js framework to build a modular and maintainable API architecture.
  – Implemented authentication and authorization mechanisms (e.g., JWT) for secure API endpoints.
  – Conducted thorough testing, including unit testing and integration testing, to ensure API functionality and reliability.
- **Advanced Shortest Paths(Self Project)**
  – Implemented algorithms on real-world road networks and social networks to find the shortest path between any 2 points
  – Executed a Bi-directional Dijkstra algorithm which worked more than 1000 times faster than regular Dijkstra
  – Processed as many as 1000 queries to find shortest path in a real road network between any 2 points under 2 seconds.
  – Git: https://github.com/sirovamohit/Graph

Technical Skills

- C++,Java,Javascript,Sql,Restful APIs,Node.js,Express.js,Jwt,Jest,Supertest

Positions of Responsibility

- **Senior Executive(Udghosh 2019)**
  – Guided and mentored 6 freshmen students in acclimatizing to the Environment of the sports fest.
  – Helped them with their issues by arranging meetings with their mentors .
  – Ensured that all team don't face any problem and all match starts on time.
  – Managed and helped students from various college and university teams to live comfortably in our campus.

Relevant Courses

Data Structure and Algorithms	Signal, Systems and Networks
Fundamentals of Computing	Linear algebra and Differential Equations
Introduction to Electronics	Microelectronics
Probability and Statistics	Introduction to Economics
Machine Learning for Wireless Communication	Control systems analysis
Digital Electronics and Microprocessor Technology	Principles of Communication

Extra-Curricular Activities

- Selected for hockey through a rigorous selection test in the CPA (Compulsory Physical Activity) program, securing a spot among the top 20 students out of approximately 100 participants.
- Secured the second position in hockey at UDGHOSH 2019, a prestigious event in which participants from various institutions competed.
- Actively participated in Spardha 2019, a sports fest, representing the institution in hockey matches.
- Maintained physical fitness and agility through regular practice sessions, drills, and conditioning exercises.
- Leveraged the experience gained in hockey to develop discipline, perseverance, and time management skills.
- Actively participated in intercollegiate matches and tournaments, representing the institution with pride and sportsmanship.