ABHINAV SINGH BHADOURIA

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OBJECTIVE

Computer Science undergraduate applying for the Associate Software Developer Intern role at Google. Strong background in data structures, algorithms, backend engineering, and applied machine learning, with hands-on experience building reliable systems, optimizing performance, and solving complex technical problems.

EDUCATION

Pranveer Singh Institute of Technology   Kanpur, India
Bachelor of Technology in Computer Science and Engineering; CGPA: 8.19   2023 – 2027
Relevant Coursework: Data Structures, Algorithms, Operating Systems, Database Management Systems, Computer Networks, Object-Oriented Programming

Durga Prasad Vidya Niketan   Kanpur, India
Class XII (CBSE): 83.33% | Class X (CBSE): 82.16%   2020 – 2022

TECHNICAL SKILLS

Programming Languages: C++, Python, JavaScript (ES6+), SQL
Core Computer Science: Data Structures, Algorithms (Greedy, Dynamic Programming, Graphs), OOP, Complexity Analysis, Debugging
Backend & Systems: Node.js, Express.js, REST APIs, WebSockets, Docker, MongoDB, Redis (basic)
Data & Machine Learning: Pandas, NumPy, Scikit-learn, Feature Engineering, Model Evaluation
Developer Tools: Git, GitHub, VS Code, Postman, Linux

PROJECTS

Elyvo | Real-Time Technical Interview Platform
Node.js, WebSockets, Docker

- Built backend services supporting real-time messaging and collaborative coding sessions.
- Reduced end-to-end latency by 35% by optimizing event-driven communication and request handling.
- Executed user-submitted code inside isolated Docker containers to ensure security and fault isolation.
- Evaluated system behavior under concurrent usage to maintain stability during live interviews.

Nebula Notes | Document Processing Platform
React, Node.js, Python

- Developed a document processing platform supporting text analysis, grammar correction, and structured content refinement.
- Designed modular backend components to clearly separate business logic and application layers.
- Improved API efficiency by profiling performance bottlenecks and applying targeted optimizations.
- Integrated frontend and backend workflows to ensure consistent and reliable user experience.

House Price Prediction System
Python, Scikit-learn, Flask, Docker

- Built predictive models achieving an **85% R^2 score** using feature engineering and cross-validation.
- Deployed the model through a REST API to support real-time inference.
- Containerized the service using Docker to enable reproducible and portable deployments.

CERTIFICATIONS

- Oracle Cloud Infrastructure (OCI) 2025 AI Foundation Associate
- Python for Data Science — Infosys Springboard
- Data Analysis with Pandas — Coursera
- Introduction to Generative AI — Coursera

OPEN SOURCE & TECHNICAL PRACTICE

- Actively maintain GitHub repositories containing backend services, ML pipelines, and DSA solutions.
- Regularly practice algorithmic problem solving on LeetCode and CodeChef, focusing on efficiency and edge-case handling.
- Write clean, modular code following best practices for readability, testing, and maintainability.

ACHIEVEMENTS

- Solved 500+ algorithmic problems across platforms, strengthening problem decomposition and optimization skills.
- LeetCode Rating: 1681 (Top 15%), demonstrating consistency in timed coding challenges.
- Participated in multiple national-level hackathons focused on scalable and practical software solutions.