SANYAM GARG

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EDUCATION

University of Wisconsin-Madison   Madison, WI
Bachelor of Science   August 2023 – May 2027
Expected Majors: Computer Science, Data Science

Relevant Coursework
Introduction to Programming, Calculus I&II, Data Structures & Algorithms, Linear Algebra

PROJECTS

Interactive Web Application for Graph Visualization   Madison, WI
University Project   September 2024 – December 2024
- **Designed** an interactive tool to visualize graph algorithms (DFS, BFS, Shortest Path), showcasing real-time execution for up to **100+ nodes**.
- Built a **dynamic front-end** leveraging HTML5 Canvas to animate algorithm execution steps.
- **Engineered** unit tests with JUnit, achieving **95% test coverage** for algorithm correctness and robustness.
- **Managed** a Git repository with **10+ commits**, ensuring version control and smooth collaboration using Agile workflows.

SPlanner   Dubai, UAE
Personal Project   March 2022 - December 2023
- **Developed a comprehensive mobile application** using Flutter and Dart to assist students with task management and academic scheduling, ensuring seamless cross-device synchronization.
- **Designed efficient data storage and retrieval functions** utilizing dynamic arrays and linked lists to optimize performance and user experience.
- **Implemented Firebase authentication** for secure data handling, incorporating hashed password protocols to protect user information.
- **Integrated advanced productivity features**, including note-taking capabilities and alerts for overdue tasks, significantly enhancing user productivity and organization.

EXPERIENCES

Cognizant   Remote
Agile Methodology Job Simulation - Forage   April 2024 – May 2024
- Demonstrated an understanding of key project management concepts by creating a comprehensive presentation analyzing strengths and weaknesses of Agile and Waterfall methodologies.
- Showcased problem-solving skills by diagnosing and proposing solutions for development process issues encountered during sprints.

Skyscanner   Remote
SDE Job Simulation - Forage   November 2023 – January 2024
- Completed a job simulation by building a web application using React as a front-end engineer at Skyscanner.
- Developed a page for picking a travel date using Skyscanner's open-source Backpack React library.

PuStack   Remote
SDE Intern   November 2021 – September 2022
- Gained proficiency in Flutter & Dart for mobile development, with hands-on experience in designing robust applications and performing extensive debugging to ensure optimal performance.
- Acquired experience in application development and agile software development methodologies.

TOOLS

Programming Languages: Java, Python, JavaScript, Dart
Software: Flutter, Git, JUnit, JavaFX, HTML, CSS
Concepts: Object-Oriented Programming, Data Structures (Red-Black Trees, HashMaps), Algorithms (Dijkstra, Prim), Object-Oriented Design, SSH