

### **Professional Summary (Software Development Engineer)**

Passionate and driven software engineering student with a strong foundation in problem-solving, algorithms, and software development. I am currently pursuing a B.Tech in Computer Science with a specialization in Cloud Computing and Automation at VIT Bhopal University. Proficient in Java, Python, and C++, with experience in developing machine learning projects, including a notable Stock Prediction Project. Adept at working collaboratively in team environments and applying analytical skills to solve complex problems. Seeking to contribute to the Engineering team as a Software Development Engineer Intern, leveraging technical skills and dedication to enhance developing efficiency.

### **Education**

#### **VIT BHOPAL UNIVERSITY**

Btech-CSE

Nov 2022-2026

- Computer Science Engineering with Specialization in Cloud Computing Batch
- CGPA - 8.34

### **Projects**

- **Stock Prediction ML Project (QuantEdge)**  
In our machine learning course, I collaborated with a team to develop a machine learning model aimed at predicting stock prices. Our project stood out and was honored as the 'Best Project' by our instructor.
- **ReactionJS | TypeScript, React, WebAssembly, Express, Docker, Git**  
Developed a tool for real-time execution and documentation for JavaScript.
  - Features code cells with live reload capabilities implemented via in-browser bundling to overcome build latency
  - Implemented a multithreaded client-daemon architecture and debouncing to maximize application performance
  - Boosted application performance by almost 73% by implementing a simple caching layer for dynamic modules.
- **ScratchDB | C++, CMake, Python, Algorithms, Relational Database Systems, Git**
  - Developed a primitive database from scratch that demonstrates the basics of indexing and searching by the use of Binary Trees and specialized Hash Functions with a focus on search performance optimization
  - Implemented in continuation a primitive key-value store that aims to be a high speed implementation of modern database-relevant algorithms. Added a range of performance benchmarks, achieved close to 78% Get Rate and 73% Set Rate performance of an in-memory pipelined redis server.

### **Certifications/Courses**

#### **Cloud Computing in AWS**

~Udemy

- I gained a comprehensive understanding of Cloud Computing principles. The course covered key topics such as AWS services, hosting dynamic and static web pages on AWS, harnessing computing powers of compute engines inside AWS.

#### **IBM DevOps**

~IBM Career Education

- learnt technologies in DevOps such as Git, Jenkins, Nagios, etc.

**Skills & Programming Languages:** programming & debugging ability, JavaScript, Python, SQL, C/C++

**Tools & Technologies:** Linux, Git, Docker, ReactJS, NodeJS, MongoDB, MySQL

**Areas of Interest:** Scalable Architectures, Cloud Computing, Databases, Operating Systems and Visual Recognition