

# Vedant Singh

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📍 Chennai, India

## 🧠 Skills

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**Cloud Certifications:** Microsoft Azure AI Associate

**Programming Languages::** Python, C/C++, Java, HTML,CSS,JS

**UI::** Figma

**Data Science/Analytics:** Kaggle, Pandas, Seaborn, SQL

## 🎓 Education

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August 2023 – present	<b>VIT Chennai</b> <i>Btech in Electronics and Computer Engineering</i> <b>CGPA 9.09</b>
2023	<b>Chinmaya Vidyalaya, NTPC Unchahar</b> Class 12, Percentage: 89.8%
2021	<b>Chinmaya Vidyalaya, NTPC Unchahar</b> Class 10, Percentage: 95.8%

## 📁 Projects

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### **Restaurant Management System:**

Engineered a comprehensive waitlist management system for a restaurant, leveraging a **circular queue** to ensure **First-In, First-Out (FIFO)** customer service. Implemented core operations including adding customers to the waitlist, serving the next available customer, and displaying the current waitlist status. This project highlights practical application of fundamental data structures to solve a real-world problem and demonstrates attention to detail in handling edge cases like a full or empty waitlist.

### **Traffic Management Simulation:**

Built an interactive **traffic flow simulation** in C++, creating a model of a city grid with dynamic vehicle movement and intelligent traffic signals. The core functionality uses an **adaptive algorithm** that evaluates real-time data, such as queue length and cumulative wait time at each intersection, to optimize signal switching. This project highlights a strong command of C++, including object-oriented design and algorithm development, to solve a practical, real-world optimization problem.

## 📜 Certificates

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### **Microsoft Azure AI Associate**

Certified by Microsoft, validating expertise in designing and deploying AI solutions on Azure, including integrating AI services for diverse applications

### **Spoken Tutorial Programming Test**

IIT Bombay Certified (2024) in Python, C, and C++. This certification validated my proficiency in fundamental programming principles and practical coding skills.