# Anish Singla

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## EDUCATION

**Punjab Engineering College**                                                          Chandigarh, India
*Bachelor of Technology in Electronics and Communication(8.1 CGPA)*              *May. 2016 – May 2020*

## EXPERIENCE

**Software Development Engineer 2**                                                   Aug 2020 – Present
*Amadeus IT Group*                                                                     *Bangalore, India*
- Part of developing and maintaining reservation, inventory, and shopping functionalities for ACRS's(Central Reservation System) **C++ / Couchbase Backend Team**, serving global hospitality giants.
- Led the design and development of a **C++** based scalable backend for the product's group booking functionality, serving biggest hotel chains to handle large-scale booking.
- This robust backend created with C++, achieved an average response time of 80ms (25% below 200ms SLA ), and efficiently handles 6000 transactions per second.
- Implemented a real-time monitoring system for customer-facing APIs using **Grafana** and Prometheus, providing key insights into throughput, response times, storage metrics, and overall system health.
- Delivered production and on-call support, resolving high-severity tickets with priority A fixes within strict Customer SLAs. This is done with an extensive **Python** Investigation and Patching Suite.
- Developed a **Java**/Spring Boot internal testing tool, automating regression testing, streamlining API investigation, and enabling UI-based API interaction.
- Owned EPICs, collaborating with stakeholders to design solutions and create **HLD** Documents within the SAFe framework.
- Contributed to comprehensive QA efforts, including E2E testing, integration testing, and developing test plans and **Python**-based test scripts.
- As part of the Task Force, helped with Migration Efforts for a customer, over 2 months covering approx 15L reservations and 15 properties.

## PROJECTS

**Smart City Project** | *C++, Javascript, Python*
- Developed a monitoring system that tracks the city's smart garbage levels and optimizes waste collection route and schedule management.
- Optimized the waste collection routes using the graph-based greedy search technique .
- Uses Live API's from the sensors installed at various collection points in the city .

**Swarm Bot Project** | *C++, Arduino*
- Built and programmed Bluetooth-based bots to work in unison and perform the given task
- Optimizes path planning and task allocation among the bots, using a mother bot
- Usecases - environmental monitoring, object detection and retrieval, or surveillance

## TECHNICAL SKILLS

**Languages**: C++, Python, Java, GoLang, , NoSQL (Couchbase), SQL (Postgres), JavaScript/HTML/CSS
**Frameworks**: Tailwind, Node / Express, Google Test
**Developer Tools**: Azure, Git, Docker, Kubernetes, Openshift, Prometheus, Grafana, Kafka