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*

- Spearheaded development and maintenance of reservation, inventory, and shopping functionalities for ACRS(Central Reservation System), serving global hospitality giants.
- Developed and Maintained C++ Restful APIs, achieving an average response time of 80ms (25% below 200ms SLA), and handling 6000 transactions per second effeciently
- Led the design and development of a scalable backend for the product's group booking functionality, serving biggest hotel chains to handle large scale booking"
- 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.
- Developed a Java/Spring Boot internal testing tool, automating regression testing, streamlining API investigation, and enabling UI-based API interaction.
- Delivered production and on-call support, resolving high-severity tickets with priority A fixes within strict Customer SLAs.
- 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.

PROJECTS

Smart City Project, Chandigarh | *C++, Javascript, Python*
- ∗ Developed a monitoring system that tracks the smart garbage levels across the city and optimizes management of waste collection routes and schedules
- ∗ 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/C++, Python, NoSQL (Couchbase), SQL (Postgres), JavaScript/HTML/CSS
Frameworks: Tailwind, Node / Express, Google Test
Developer Tools: Azure, Git, Docker, Kubernetes, Openshift, Prometheus, Grafana