

SAGAR GUPTA

Associate Software Developer
Aurus Tech Pvt. Ltd. (July 2023-Present)

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INTRODUCTION

An experienced backend developer with two years of expertise in designing scalable server-side architectures and optimizing database performance. Proficient in Kotlin, C++, Python, and JavaScript, with a strong foundation in API development, system security, and performance optimization. Passionate about solving complex problems and enhancing application efficiency. Seeking a challenging role to contribute technical and management skills to a dynamic organization.

SCHOLISTIC ACHIEVEMENTS

- 2021-2023- Master's in Computer Applications from Maharana Pratap College of Technology, Gwalior, Madhya Pradesh
- 2017-2020 – Bachelor's in Computer Applications from Prestige Institute of Management, Gwalior, Madhya Pradesh
- 2017 - Secondary School Certificate from Kendriya Vidhyalaya No.1, Gwalior, Madhya Pradesh

WORK EXPERIENCE

- Developed and implemented a scalable form-based architecture for handling transactions and API requests, enhancing communication between SDKs and Pinpad devices using Kotlin.
- Optimized RESTful APIs, reducing response times by 25%, leading to significant performance improvements.
- Ensured PCI DSS compliance through encryption, secure coding practices, and log masking techniques.
- Maintained code quality using SonarQube and managed Agile sprints via JIRA.
- Skilled in TCP-IP, Serial, and hybrid communication.
- Monitored and optimized backend services, ensuring scalability and handling increased loads efficiently.

KEY PROJECTS

Product Development

- Designed and developed a Form-based Architecture for seamless Pinpad-SDK communication, reducing processing overhead and improving performance.
- This Architecture was newly developed to reduce the code handling at Pinpad side, resulting in improved performance at Pinpad.
- Worked on end-to-end credit/debit card transaction flows including sale, refund, void.
- Integrated 1:1 architecture between Pin Pad and AE SDK to support encrypted PIN entry and EMV/contactless transactions.
- Shifted full card data handling responsibility to SDK, simplifying Pinpad operations

Client-Facing Projects

- Worked with major clients like PAR, Vail Resorts, and Vitamin Shoppe on high-visibility projects.
- Designed and tested JSON request/response structures for various transaction types including tip, cashback.
- Designed and parsed ISO-like JSON host requests/responses for secure payment authorization and settlement. Implemented cheque purchase functionality with validation, request handling, and host communication.
- Developed and maintained tender flows for FSA cards, EBT vouchers and EWIC cards with eligibility checks and regulatory compliance.

TECHNICAL SKILLS

- Programming Languages: Kotlin, Python, C++, Node.js, Django
- Web Technologies: HTML, CSS, JavaScript
- Databases: MongoDB, SQL
- Data Structures & Algorithms (DSA)
- System Design & API Development
- Networking & Communication Protocols: TCP/IP, serial and hybrid.

TOOLS USED

- Development IntelliJ IDEA, Visual Studio, Ingedev
- Code Commit: GIT
- Trace Tool = Tetra-info, Trace-QT
- Ticketing Tool: JIRA, Monday.com
- Code Integration & Comparison: Beyond Compare.

HOBBIES

Gyming, Travelling, Reading & Skating