

SHASHANK KUMAR

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About — Backend Engineer with 4+ years of experience building scalable payment systems using C++ and distributed architectures. Experienced in designing PCI compliant highly-reliable APIs, payment processing, and event-driven systems. Proven ability to own backend services end-to-end, improve system efficiency, and deliver developer productivity tools.

Skills

Languages: C++ **Backend:** REST APIs, Microservices, Distributed Systems **Messaging:** Kafka **Payments:** ISO8583, PCI-DSS, Payment Processing **Data:** SQL **Tools:** Splunk, Swagger, Git **Core CS:** Data Structures, Algorithms

Experience

Outpayce from Amadeus **MAY 2024 – Present**
SDE II

- Developed core components of a standalone payment platform enabling seamless integration of Alternative Methods of Payment (AMOPs), enabling onboarding of multiple external providers and reducing integration effort by 50%.
- Designed and implemented high-availability payment provider APIs handling concurrent transactions, improving system extensibility and partner integration scalability.
- Led efforts to modularize legacy components into reusable services (componentization), improving maintainability and reducing code duplication across teams.

Amadeus **AUG 2022 – MAY 2024**
SDE I

- Contributed to architecture and development of a Buy Now Pay Later (BNPL) solution for travel payments, enabling flexible payment options across multiple markets.
- Designed the approach and mentored an intern to build internal automation tools for QA and implementation workflows, reducing manual testing effort by 30% and improving release efficiency.
- Proactively identified system inefficiencies and implemented optimizations that improved development velocity and reduced turnaround time for feature delivery.

Amadeus **FEB 2022 – AUG 2022**
SDE Intern

- Designed and developed an ISO8583 message encoder/decoder used in credit card transaction processing, improving debugging efficiency for payment flows.
- Automated integration testing by enabling web-based injection of payment messages into partner sandbox environments, reducing testing turnaround time.
- Delivered a tool widely adopted by QA teams, improving productivity and consistency of payment testing workflows.

Projects

EaseParking: Distributed Parking Platform **2022**

- Designed and developed a backend-driven platform connecting property owners with vehicle users for real-time parking space discovery and booking.
- Implemented scalable services for listings, booking management, and user workflows, demonstrating system design for real-world urban use cases.
- Conceptualized as a scalable solution to reduce urban congestion and improve parking accessibility.

Education

Rajiv Gandhi Technical University, Bhopal (M.P.) **2018-2022**
B. Tech. in Computer Science

Achievements

- Recognized as Internal Trainer at Amadeus for two consecutive years (2023, 2024), mentoring new-joiners on Alternative payment methods.
- Recognized by Amadeus with “Game Changer” and “Pace Setter” awards for driving improvements and innovative solutions.
- KPIT Sparkle Emerging Innovator. (2020).