

Jobanpreet Singh Thind

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EDUCATION

- **University Of Waterloo** Waterloo, Ontario, Canada
Masters of Electrical and Computer Engineering 2023 - 2024
- **Thapar Institute of Engineering and Technology** Punjab, India
Bachelor of Engineering Computer Engineering; CGPA: 8.45/10 2017 - 2021

TECHNICAL SKILLS

- **Languages & Frameworks:** Java, Haskell, Python, SQL, Spring Boot, Hibernate, JPA, JUnit, Mockito
- **Tools & Technologies:** Git, Jenkins, Maven, Kibana, Grafana, MySql, Postgres, Docker, Redis, OOPS, Functional Programming, Multi-Threading

PROFESSIONAL EXPERIENCE

- **Juspay** Bangalore, India
Software Development Engineer Jan 2022 - Aug 2023
 - Led a dynamic team of 6 developers to oversee the onboarding of Google onto our merchant stack, discussing APIs, infrastructure and integration strategies.
 - Architected and executed the development of Unified Payments Interface (UPI) products for consumer and merchant infrastructure, incorporating advanced features such as split settlements, third-party validations, UPI credit card payments, KYC flows, Aadhaar OTP, UPI Lite, UPI Mapper, and intent and QR payments.
 - Managed a tech stack facilitating 10M transactions daily with zero downtime over 1.5 years.
 - Implemented query optimizations through caching techniques, reducing DB load by 30% and improving API latency by 10%.
 - Contributed to the implementation of a Key-Value (KV) system utilizing Redis to efficiently address unexpected surges in incoming requests.
 - Implemented a modular and extensible code architecture to accommodate evolving business requirements, enhancing scalability, code quality, and readability.
- **Amadeus Software Labs** Bangalore, India
Software Development Engineer Jan 2021 - Jan 2022
 - Worked in core reservation team that handled end to end flow from ticket selection to ticket booking.
 - Majorly worked on maintenance and bug fixing of code to ensure service quality and up-time.
 - Collaborated with cross-functional teams to implement enhancements that improved booking efficiency.
 - Worked on Integration of Booking Engine with Cab and Rail content as a feature for one of the client airlines.
 - Developed and implemented the full back-end logic for the integration of rail content with flight content.
 - Parallelized construction of mixed itinerary to bring down processing time by 80%.

PERSONAL/ACADEMIC PROJECTS

- **Optimizing Camera Surveillance at Traffic Intersections**
 - A variation of vertex cover problem implemented using different algorithms including SAT solver in C++.
 - Implemented multi threading for parallel task execution, enhancing overall system efficiency.
 - Implemented inter process communication between different programs using fork, wait, etc. system calls.
- **Multi-User Chat Java Program**
 - Client-Server based chat program based on socket programming.
 - Have functionality of group messaging.
 - Shows current online users and notifies when a user goes offline.
 - User can chat with multiple other users concurrently.
- **Image Steganography With AES Encryption**
 - Utility to hide secret messages in regular png image pixels.
 - Messages are encrypted using AES Block chain mode before embedding.
 - Predetermined secret key used for encryption and decryption.
 - Images before and after embedding secret messages remain 99.99% identical.