

Joita Mitra

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Summary

Software engineer with ~3 years of experience building production C++ applications on Windows. Strong background in systems programming, debugging, authentication, and enterprise-scale platform development. Delivered Windows security and provisioning solutions across 150K+ endpoints at Oracle.

Education

SRM Institute of Science and Technology

Chennai

Bachelor of Technology, Computer Science Engineering (IT) - **9.83 CGPA**

2019 - 2023

• Gold Medalist - First Rank in B.Tech CSE-IT • Performance Scholarship (3 consecutive years)

Professional Experience

Oracle

Bengaluru

Member Technical Staff, Oracle Cloud Infrastructure

Jun 2023 - Present

- Spearheaded the design, development, and production rollout of a custom Windows Credential Provider in C++, integrating BitLocker key verification and Windows Hello PIN recovery for self-service password recovery; reduced password reset time from ~60 minutes to ~5 minutes (12× improvement) and secured production approval from Oracle's security review board.
- Open-sourced a stripped reference implementation of the Credential Provider to demonstrate Windows authentication and recovery workflows. (Github: [JoitaMitra/windows-password-recovery](#))
- Redesigned passwordless SSO authentication for Oracle's Windows PE provisioning workflow; refactored ~40% of the Electron.js codebase to restore secure authentication for newly provisioned devices across 150K+ Windows endpoints.
- Led security baseline engineering for Oracle's largest endpoint migration (150K+ Windows devices) from VMware Workspace ONE to Oracle's in-house MDM. Translated GPOs to CSP/ADMX policies and consolidated the security baseline from 204 to 97 settings, reducing complexity by 52% at enterprise scale.
- Architected an organization-wide MDM automation suite in PowerShell using REST APIs, reducing manual effort by ~80% and minimizing human error. Trained senior engineers across Endpoint Engineering.
- Built and owned Windows endpoint reporting infrastructure in Oracle Analytics Cloud (OAC), delivering operational diagnostics for migration health, provisioning timing, and password reset metrics; optimized complex reporting pipelines, reducing load times by 95%+ and becoming the team's go-to expert for OAC reporting.

Barclays

Pune

Software Development Intern

Jun 2022 - Aug 2022

- Supported Oracle database operations for Barclays US Consumer Bank, including database creation, maintenance, backup, and user management activities.
- Implemented job scheduling workflows using Tivoli Workload Scheduler (TDWC) and gained exposure to the migration of 10M+ Gap Inc. cardholders to the Barclays platform.

Achievements

- **Oracle Summit Award (FY25 Q3)** - Awarded for delivering OCI Block Storage API integration in a cross-team code archival solution, resolving JFrog/Artifactory pipeline issues for the Windows OS team.
- **Exceeds Expectations Performance Rating (FY25)**
- **IEEE Publication** - [Image Inpainting of Synthetic Images Generated from Textual Data](#), IEEE ICCCNT 2023.
- **OCI Certified Foundations Associate** - Oracle Certification

Technical Skills

- **Programming Languages:** C++, C#, PowerShell, Python, Typescript, Javascript, SQL
- **Windows Security & Identity:** Credential Providers, BitLocker, Windows Hello, TPM, Passwordless Authentication, DPAPI, Cryptography, Microsoft Entra ID
- **Enterprise Management:** Group Policy, CSP/ADMX, Windows MDM, VMware Workspace ONE, Windows PE
- **Frameworks & Development :** .NET, Electron.js, Node.js, React.js, REST APIs, PowerShell Automation
- **Cloud, Analytics & Infrastructure :** Oracle Cloud Infrastructure (OCI), OCI Block Storage, Oracle Analytics Cloud (OAC)