

SAJAL NARANG

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EDUCATION

Master of Science, Georgia Institute of Technology August 2023 - May 2025
Major in Computer Science with a specialization in **Computing Systems** **GPA 4.0/4.0**
Graduate Research Assistant advised by Prof. Ramachandra Sivakumar December 2023 - May 2025
Relevant Coursework: Advanced OS, Advanced DB, Distributed Systems, HPC, IoT, DL, CV, Programming Languages, Logic

Bachelor of Technology, Indian Institute of Technology, Bombay July 2015 - April 2019
Relevant Coursework: Computer Networks, DSA, Operating Systems, ML, Data Analysis, Discrete Structures, Network Security

WORK EXPERIENCE

Amazon *Seattle, USA*
Software Development Engineer 2 — Identity Services May 2025 - Present

- **MFA/Passkey Mandates.** Delivered a **97% reduction in repeat account takeovers** by building and launching MFA and Passkey enrollment mandates for high-risk, high-value Amazon Business customers facing regular targeted attacks
- **Compromised Account Sanitization.** Designed, developed, and deployed the snapshot-backed surgical rollback of account-takeover victims that reverts only the attacker's changes, benefiting **15 million customers** annually

Epifi *Bangalore, India*
Senior Software Engineer — Platform Software March 2023 - July 2023

- **A/B Experimentation Platform.** Developed a platform to enable PMs to run and analyze overlapping visual experiments, enabling data-driven decision making and tailored customer experiences, leading to **250% more user engagement**
- **GoLand Code Navigation Plugin.** Wrote an open-source plugin facilitating bi-directional code navigation between gRPC client and server codebases in a monolithic repository, resulting in a monthly time savings of **5000 developer hours**

Goldman Sachs *Bangalore, India*
Software Development Engineer 2 / Associate — Core Engineering Division May 2019 - February 2023

- **ORM Persistence.** Led the generalization of an object relational mapping (ORM) software suite for long-term persistence of transactional data from Gemfire clusters to a Sybase IQ data warehouse using Apache Kafka for **400% higher scalability**
- **Cloud Migration.** Spearheaded the firm's cloudification strategy with initiatives like Infrastructure as Code (IaC), PSRP common pool scheduling, GitLab SDLC runtime migration, and Terraform resource packaging for **25x faster deployments**
- **Process Scheduling.** Transferred all team processes to a new containerized scheduler to achieve a **75% wait time reduction**

ExodusPoint *New York, USA*
Risk Developer Intern May 2024 - August 2024

- **Risk Assessment Tools.** Built automated tools to provide real-time VaR, Vol, Stress, and Beta metrics to portfolio managers
- **Trading Strategy.** Set up a unified firm-level trading strategy basis PM strategies maximizing realized risk-adjusted returns

KEY PROJECTS

BYO Earphones. Presented a demo at ACM HotMobile 2024 of a novel audio broadcasting system ([Link to Paper](#))

Distributed KV Store. Scalable, PC/EC, sharded, replicated, concurrent key-value store using strict 2PC ([Source Code](#))

Heirarchical RAG. Modular, interactive, context-aware conversational agent for summarization and comparison queries on real-time data, powered by locally-hosted LLM models and vectorless Retrieval Augmented Generation (RAG) ([Try it here](#))

Composer AI. Monophonic melody generation using a decoder-only transformer trained from scratch ([Source Code](#))

BCI Gesture Control. Brain-Computer Interface (BCI) based smart home controller, using an EEG headset to detect Steady-State Visually Evoked Potential (SSVEP) to tag devices, and control them through hand gestures (To Be Published)

APhOrum. Proctoring software for the 22nd Asian Physics Olympiad, that saw participation from 28 countries ([Source Code](#))

SKILLS

Languages	Java, Python, Go, C/C++, Kotlin, Scala, C#, Jekyll, R, XML, Bash, MATLAB, Awk, TCL, VBA
Web/Cloud	Spring Boot, gRPC, Flask, Django, WebSockets, REST APIs, Terraform, AWS, Docker, Kubernetes
Databases/Tools	SQL, NoSQL, Kafka, Elasticsearch, Redis, RabbitMQ, Git, JetBrains IDEs, GitHub Copilot, CI/CD

AWARDS AND ACCOLADES

Rockwell Automation Engineers' Week Challenge. Global Winner in Cybersecurity, CS, and Math/Logic tracks	2024
AWS Financial Services Game Day. Second Runner Up	2022
Smart India Hackathon. National Winner in Software track	2019
Goldman Sachs Global All-Analyst Hackathon. Firmwide Global Winner	2019
Ubisoft GameLab. National Winner of Two Consecutive Editions	2018
Institute Organizational Color. Awarded for exceptional performance as Institute Web and Coding Secretary, IITB	2018