SHIVAM ARORA

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EDUCATION

University of Michigan

Ann Arbor, MI

M.S. in Computer Science & Engineering

Aug 2025 - Present

Planned Coursework: Human-AI Interaction, Probability & Random Processes, Applied GPU Programming, Advanced Cryptography, Advanced Database Systems, Machine Learning, Advanced Scalable Systems, Natural Language Processing, Reinforcement Learning Theory

Thapar Institute of Engineering and Technology

Punjab, India

B.E. in Computer Science; GPA: 3.98/4.00 (9.77/10.00)

Aug 2017 - Jun 2021

WORK EXPERIENCE

Goldman Sachs

Bengaluru, India

Associate - Technology Jan 2024 - July 2025

- Led architecture of a Spark, AWS Glue, and Snowflake-based insurance calculator, processing 6M+ daily deposit accounts with a 20-minute SLA. Delivered accurate pre-9AM ET calculations enabling timely deposit record keeping.
- Architected one of the firm's first cloud-native AWS data pipelines to process US deposit information, including customer PII. This project improved the precision of the data by 99%, drove data standardization between divisions and ensured compliance with federal regulations (FDIC Part 370)

Goldman Sachs

Bengaluru, India

Analyst - Technology

Jul 2021 - Dec 2023

- Automated and streamlined end-to-end German Deposit Protection and other European regulatory reporting systems using Java, SQL, REST APIs, and Sybase IQ.
- This effort improved the EdB regulatory rating from E (Fail) to B and reduced quarterly reconciliation effort by 60%.

Goldman Sachs

Bengaluru, India

Intern - Technology

Jan 2021 - Jun 2021

- Developed a full-stack reconciliation platform (React, Java Spring) that automated reconciliations between firms General Ledger and Regulatory Reporting data, serving 500+ professionals (Controllers) and saving over 800 person-hours each quarter. This performance earned a Pre-Placement Offer.
- Collaborated in an Agile environment, transitioning 300+ legacy screens to modern GS Web stack with comprehensive JUnit testing framework.

SELECTED RESEARCH PROJECTS

Navigation System for the Visually Impaired

- 4-person Capstone Team, Thapar Institute of Eng. & Technology, India; Advisor: Dr. Ashutosh Mishra
- Architected an IoT-based wearable navigation system for the visually impaired, using Arduino, Node.js, and Google Maps API. The system achieved 99.2% obstacle detection accuracy with a sub-3 second haptic response time.

Brain Signal Controlled Prosthetics

- 2-Month Research Internship, Indian Institute of Technology (IIT), Delhi; Advisor: Dr. Soutik Betal
- Developed an EEG-based prosthetic control system that integrated hardware with a Convolutional Neural Network (CNN), reducing setup time by 75% and enabling high-accuracy, real-time prosthetic control.

AWARDS & RECOGNITIONS

GS Controllers India Award (2022): Recognized for exceptional performance in architecting and implementing and help mitigating risk for the German Deposit Reporting at Goldman Sachs.

Merit Scholarship (2017–2020): Awarded for sustained academic excellence, consistently ranking in the top 10% of the program cohort

National Math Olympiad (2015): Achieved a perfect 100% score in the national-level competition organized by the Homi Bhabha Centre For Science Education (HBCSE).