

Joyjit Choudhury

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EDUCATION

University of Victoria

Master of Science (Thesis) in Computer Science, GPA: 9/9

Victoria, BC
Sept 2024 - Dec 2025

- **Research Area:** VLS Databases, Distributed LLM Agent Orchestration
- **Coursework:** Data Mining & Machine Learning, Data Models & Algorithms

Concordia University

Master of Applied Computer Science (Transferred to UVic)

Montreal, QC
Jan 2024 - Aug 2024

- **Coursework:** Algorithm Design, Deep Learning, Advanced Programming

National Institute of Technology Durgapur

B.Tech. in Computer Science & Engineering, GPA: 8.74/10 (Graduated with First Class Distinction)

Durgapur, India
2014 - 2018

- **Coursework:** Discrete Mathematics, Computer Architecture, Data Structures & Algorithms, Compiler Design, Operating Systems, Database Management, Computer Networks, Artificial Intelligence

EXPERIENCE

University of Victoria

Graduate Teaching Assistant | CSC 429/529 - Crpytography

Victoria, BC
Jan 2025 - Apr 2025

- Assist academic instruction by grading problem sets/exams for the CS senior/graduate level course on cryptography

Turvo (acquired by Lineage, Inc.)

Senior Software Engineer (SDE 3) | Distributed Systems, Java, Python, Elasticsearch, RabbitMQ, Redis

Hyderabad, India
Aug 2019 - Dec 2023

- Engineered cost-efficient integrations by implementing OpenRouteService and Nominatim APIs, saving upwards of US\$750K annually on map API expenses
- Live debugging and resolution of multiple production p0 incidents by using logs of systems distributed across multiple servers, message queues and databases with the leadership team and clients present on-call.
- Spearheaded a critical feature for [Turvo TMS](#)—Order-Shipment Synchronization—delivering it from scratch under tight deadlines while leading a team of senior engineers.
- Modernized the internal map library across the platform to support newer HERE Maps APIs with dynamic version control, enhancing system flexibility.
- Designed and developed critical platform components—accounts, billing, shipments, and a high-performance Redis-based lookup cache library—while serving as a SME for Inventory, Exceptions, and Notifications to resolve complex issues.
- Conducted interviews for over 50 candidates and mentored 5+ new hires, providing technical guidance and ensuring successful integration into the team.

Oracle

Applications Engineer | Java, REST APIs, JAX-RS, EJB, JPA, SQL, JavaScript, Oracle JET, HTML/CSS

Hyderabad, India
Jul 2018 - Aug 2019

- As one of the first three engineers on Mercury, an in-house supply chain planning tool, I led full-stack development of its Budget Control Module for efficient budget management.

Complex Networks Research Group, IIT Kharagpur

Research Intern | Multivariate point processes, C++, GCC

Kharagpur, India
Summer 2017

- Developed a custom C++ package for Fitting Parameters of a Sparse Multidimensional Hawkes Process, for modeling Online Social Networks with minimum error.

PROJECTS AND OPEN SOURCE

GNOME Calendar | Open Source Contribution | C, GTK+

Summer 2017

- Authored and merged multiple [patches](#) fixing some obscure bugs in the week-view functionality of GNOME Calendar
- GNOME Calendar is the calendar application for the Linux GNOME Desktop Environment. Written primarily in C, it uses GTK+ for creating the GUI.

TECHNICAL SKILLS

Languages & Tools: Java, C/C++, Python, JavaScript, SQL, HTML/CSS, git, Docker, AWS, L^AT_EX, Linux

Frameworks & Libraries: Spring, Spring Boot, PyTorch, Pandas, NumPy, RabbitMQ, Kibana

Database Tech: MySQL, MongoDB, Elasticsearch, Redis, Neo4j, Pinecone

Architectures: REST APIs, Microservices, Event-driven Systems, Database Sharding, Distributed Systems debugging

Testing & Other Tools: Jenkins, Liquibase, Log4j, Unit Testing, Performance Testing

ACHIEVEMENTS

- **Most Valuable Player**, Awarded MVP for R3/R4 2022 performance at Turvo Inc.
- **Rank ~16k in JEE MAIN, 2014 (AIEEE)**, Top 1% among 1.35 million students
- **Rank ~14k in JEE ADVANCE, 2014 (IIT-JEE)**, Among the Top 150k students from JEE(MAIN), 2014
- **Rank 1 in Senior Secondary School**, Army Public School Kolkata (Science stream)