

# TARANJOT SINGH

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LinkedIn

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LeetCode

## PROFESSIONAL SUMMARY

Software Engineer and MSc Computer Science student with strong experience in **backend and full-stack development**. Solid foundation in **System Design** and **Data Structures** (600+ DSA problems solved). Proven ability to build and scale **SaaS** and **microservice-based systems** using **.NET Core, Java/Spring Boot, and Node.js**, with hands-on experience in **module migration, authentication systems**, and performance optimization, including improved **MySQL query response times**. Focused on delivering secure, scalable, and high-performance software solutions.

## EDUCATION

**M.Sc. in Computer Science (Software Engineering)** | **Expected: 1:1**  
Maynooth University

2025 – Present  
Maynooth, Ireland

**B.Tech - Computer Science and Engineering** | **CGPA: 8.5**  
Guru Tegh Bahadur Institute Of Technology  
**Minor Specialization: Full Stack Development**

2021 – 2025  
New Delhi, India

## EXPERIENCE

**Software Engineer (Full-time, Remote)** Oct 2025 – Present  
Singh Solutions Delhi, India

- Designed and delivered **SaaS-based microservices** for client-facing platforms using **.NET Core, Spring Boot, and Node.js**, supporting scalable and multi-tenant architectures.
- Implemented centralized authentication and authorization with **Keycloak**, securing **5+ microservices** through role-based access control.
- Containerized and deployed **10+ services** using **Docker**, standardizing CI/CD workflows and ensuring consistent environments across development and production.
- Enhanced system performance and observability by integrating **Redis caching** and the **ELK Stack**, reducing API latency by **30%** and accelerating production issue resolution.

**Tech:** .NET Core, C#, Java, Spring Boot, Node.js, SaaS, Keycloak, Docker, Redis, ELK Stack, SQL, CI/CD

**Trainee Software Engineer (Full-time, On-site)** Sep 2024 – Sep 2025  
Opkey Noida, India

- Migrated core Opkey modules from .NET Framework to **.NET Core**, resolving major legacy compatibility issues.
- Automated generation of **15+ DevExpress** reports, enhancing report rendering speed and workflow efficiency.
- Architected backend services for both **SDLC** and **Workflow Management** add-ons using **Node.js**, expanding the Opkey Marketplace ecosystem.
- Engineered robust **cross-platform applications** for Windows and macOS agents, enabling seamless code execution across diverse OS environments.

**Tech:** .NET Core, Azure DevOps, AWS, Node.js, C#, DevExpress, SQL, CI/CD

**Software Engineering Intern (Hybrid)** Aug 2024 – Aug 2024  
Q3 Technologies Gurugram, India

- Developed and deployed a **Spring Boot + Activiti BPMN** automation engine to orchestrate complex business workflows.
- Integrated **Microservices** with the workflow engine to ensure process **scalability** and enable comprehensive **audit tracking**.

**Tech:** Spring Boot, Activiti BPMN, Java, Microservices, MySQL

## Software Engineering Intern (On-site)

Singh Solutions

Jul 2023 – Jul 2024

New Delhi, India

- Developed secure **REST APIs** in **Django** for internal business operations, implementing granular **Role-Based Access Control (RBAC)**.
- Optimized complex **MySQL** queries, achieving a **25% reduction** in query response time through indexing and refactoring.
- Integrated **Redis** caching layer to minimize database load, significantly improving backend **throughput and scalability**.
- Implemented **JWT authentication** middleware to ensure secure user access and encrypted API communication.

**Tech:** Java, Python, Django, MySQL, REST APIs, Redis, JWT, Git

## TECHNICAL SKILLS

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**Languages:** C#, Java, Python, C/C++, JavaScript, SQL, HTML, CSS

**Backend & Frameworks:** .NET Core, Spring Boot, Node.js, Django, DevExpress

**Cloud & DevOps:** Azure, AWS, Docker, Azure DevOps, CI/CD Pipelines, Git, GitHub

**Security & Auth:** Keycloak, OAuth2, JWT

**Databases & Caching:** MySQL, MongoDB, Oracle, Redis

**Observability & Tools:** Elasticsearch, Kibana, Swagger, Postman

## PROJECTS

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### University Timetable Quick Look Chrome Extension | JavaScript, Chrome API, HTML/CSS 2025

- \* Developed a Chrome Extension enabling one-click access to daily schedules and upcoming classes directly from the browser toolbar, with a responsive popup UI built using HTML/CSS.
- \* Implemented CSV-based data ingestion, validation, and persistent storage using the Chrome Storage API, dynamically calculating academic weeks and displaying upcoming classes in real time.

### Steganography Cross-Platform Application | .NET Core, C# 2024

- \* Developed a cross-platform steganography application using .NET Core to securely embed AES-encrypted text within image files.
- \* Implemented a responsive and user-friendly interface with validation, error handling, and multi-OS compatibility for encoding and decoding workflows.

### VPN Implementation using SSL and JSSE | Java, Networking 2023

- \* Built a VPN prototype leveraging SSL/JSSE for encrypted client-server communication.
- \* Optimized socket communication for reliability under various network conditions.

## TRAINING

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### Full Stack Development Using Java (AccioJob)

Feb 2024 – Jan 2025

Part-time, On-Site

- Hands-on **Java-based full-stack** training focusing on **Spring Boot**, **REST APIs**, and **React** integration.
- Building **scalable web applications** with **layered architecture** and **CI/CD** practices.

## CERTIFICATIONS

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- **Web Development: HTML, CSS, JavaScript, jQuery, Node.js** — Udemy (Dec 2023)
- **Organizational Behaviour** — NPTEL (Oct 2023)
- **Java Programming: Beginner to Advanced** — Udemy (Aug 2023)

## CODING PLATFORMS

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- Solved **600+** **DSA problems** across **LeetCode**, **GeeksforGeeks**, and **AccioJob**.
- Active in **algorithmic problem-solving** and **competitive programming**.