

TARANJOT SINGH

Dublin, Ireland

+353 89 942 7317 taranjot2601@gmail.com LinkedIn GitHub 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 2025 – Present
Maynooth University Maynooth, Ireland

B.Tech - Computer Science and Engineering | CGPA: 8.5 2021 – 2025
Guru Tegh Bahadur Institute Of Technology New Delhi, India

Minor Specialization: Full Stack Development

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)

Jul 2023 – Jul 2024

Singh Solutions

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

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

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

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

- **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

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