

# Deen Mohammed Ratul Sarker

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## Career Profile

A very keen 2nd year BSc (Hons) Computer Science student at the University of Dundee, passionate about learning and enhancing technical skills. Proficient in Java, C, C++, HTML, CSS, Network Design, Shell Scripting, and Microsoft Office tools, with hands-on experience developing software applications, games, and websites. Eager to contribute to innovative projects while continuously improving knowledge in programming and problem-solving. Currently seeking a Software Developer Internship to apply my technical skills on real-world projects and gain valuable industrial experience.

## Education

- BSc (Hons) Computer Science (2<sup>nd</sup> year) | University of Dundee, UK (2025 -2028)
- Core Modules: Data Structures & Algorithms, Software Development, Website Development, Unix & Network, Math for Computing, Multi-paradigm programming and Operating Systems.
- Actively developing skills in Java, C & C++ programming, web technologies, software & network design.

## PROJECTS

- Hospital Appointment Scheduler (Java, Swing, OOP Principles)
  - Designed and implemented a Java-based application for managing hospital operations, including appointments, health professionals, and patient data.
  - Integrated a graphical user interface for ease of use and data management.
- Battleship Game (Java)
  - Developed a fully functional battleship game using Java.
  - Implemented game logic, board layout, and win/lose conditions, enhancing algorithmic thinking and user interaction.
- Website Project (HTML & CSS)
  - Built a responsive, multi-page website to showcase skills in HTML & CSS.
  - Applied clean design principles for improved user experience and accessibility.
- File System Analyser (Bash Scripting)
  - Created a menu-based Bash script that includes functions such as identifying the largest file, finding duplicates, showing the directory tree, and analysing file extensions.
- Network Design (EIGRP using Packet Tracer)
  - Designed a network in Packet Tracer using EIGRP, with subnetting, IP addressing and VLANs to ensure efficient connectivity and organization.

## Work Experience

- I worked as a kitchen staff member at a restaurant named *Sliders & Slices*, located at 104 Dura Street, Dundee, DD4 6TE, where I developed teamwork, time management, and adaptability skills in a fast-paced environment.
- When I was in my home country (Bangladesh), I used to tutor my juniors in Mathematics and Physics, which helped me strengthen my communication skills, patience, and ability to explain complex concepts clearly.

## Computing Skills

- **Programming Languages:** Java, C, C++
- **Web Development:** HTML, CSS
- **Scripting & Automation:** Bash (Linux shell scripting)
- **Tools & IDEs:** Eclipse, BlueJ, Visual Studio
- **Network Design tool:** Cisco Packet Tracer
- **Version Control:** Git & GitHub
- **Operating Systems:** Windows, Linux (shell scripting and administration)
- **Productivity Software:** Microsoft Office Suite (Word, Excel, PowerPoint)

## Transferable skills

- **Problem-Solving & Analytical Thinking:** Gained through programming projects such as hospital appointment scheduler, battleship game, website design and network design, applying logical approaches to complex challenges.
- **Communication Skills:** Strengthened through part-time work, tutoring, and group projects, with the ability to explain ideas clearly and work effectively with diverse people.
- **Teamwork & Collaboration:** Developed through part-time work and group coursework, working effectively in fast-paced and diverse environments.
- **Time Management & Adaptability:** Proven by balancing academic studies, projects, and part-time work while meeting strict deadlines.

## Interests & Hobbies

- Socialising with friends and family, reading tech blogs to keep myself up to date with new technologies, learning different cultures, travelling and going for long walks.

## Referee

Available upon request