

SAURAV RAULI

Southall | 07548 213 220 | sauravrauli@hotmail.com | [GitHub Profile](#)

Graduate IT Developer | Backend Developer | Analytical Problem Solver

A driven and analytical software engineer passionate about building scalable, high-performance applications using Java, React, and cloud platforms. With a 1st Class Honours in Business Information Systems, I have hands-on experience in full-stack development, debugging, and process optimization. I excel in collaborating with cross-functional teams, identifying bottlenecks in code efficiency, and delivering high-quality software solutions. Experienced in agile development, APIs, cloud computing (AWS, Firebase), and distributed systems, I thrive in fast-paced, high-expectation environments and am eager to contribute my skills.

Technical Skills

Programming Languages: Java, JavaScript (ES6), Python, C++, PHP, HTML/CSS

Frameworks & Libraries: React, Node.js, DropWizard, Sass

Cloud & Infrastructure: AWS, Terraform, Firebase

Databases: MySQL, PostgreSQL, Redis, ElasticSearch

Software Development Concepts: APIs, Distributed Systems, Debugging, Data Modeling, OOP

Development Practices: Agile (Scrum, Kanban), Version Control (Git/GitHub), Code Reviews

Technical Projects

NHS Shift Management Application

Watch the Demo: [MyNHS App Demo](#)

- Developed a mobile scheduling app using Dart/Flutter and Firebase, ensuring real-time updates and enhancing team coordination.
- Implemented authentication and role-based access control, boosting security and efficiency.
- Optimized database queries by analyzing query execution plans and implementing indexing strategies, reducing latency by 30% and improving overall system efficiency. and improving user experience.
- Identified and fixed performance bottlenecks, ensuring scalability and fault tolerance.

Algorithm Optimization

- Optimized sorting and searching algorithms in Python, improving processing speed by 25%.
- Applied Big O notation to analyze performance, implementing efficient data structures (hash tables, trees, linked lists) to solve complex computational challenges.
- Conducted unit testing to validate code correctness and enhance algorithm scalability.

Portfolio Website

- Designed a responsive, user-friendly portfolio using JavaScript (ES6), HTML, and CSS to showcase technical projects.
- Utilized GitHub Pages for hosting, demonstrating version control best practices and CI/CD pipeline familiarity.

Professional Experience and Achievements

Rackspace Limited

Project Manager

2020 - Present

- Collaborated with software development teams to debug API integrations, focusing on RESTful services and microservices architecture using Java and Node.js, improve backend efficiency, and resolve system bottlenecks.
- Led cloud migration projects, managing data transitions across distributed systems, optimizing API connectivity, and ensuring seamless infrastructure scalability.
- Authored technical documentation for internal tools and APIs, reducing onboarding friction and increasing developer productivity by 30%.
- Facilitated Agile sprints and retrospectives, accelerating feature delivery by 15% and enhancing cross-team collaboration.
- Assisted engineers in query optimization, leading to 20% improvement in database performance and application speed.

NHS, Greenbrook Healthcare, Hillingdon Hospital

Receptionist / Administrator

2017 – 2020

- Developed a mobile scheduling app to optimize shift management, reducing scheduling errors by 30%. Debugged and tested application features, ensuring high reliability under peak usage scenarios and real-time data demands.
- Created user documentation and training materials, improving onboarding efficiency for healthcare staff by 20%.
- Implemented Firebase real-time database queries, enhancing data retrieval speed and overall system responsiveness.

Education and Qualifications

University of Westminster, London

2017 - 2020

BSc (First Class Honours) Business Information Systems

- Coursework: Software development, Database Management, System Design, Data Analysis and Algorithms.

London South Bank University

2017

Foundation Course for Business and Computing (2:1)

Guru Nanak Sikh Academy

A Levels (A-C), BTEC Level 3: Science (Pass), GCSEs (A*-C)

2016