

Sairaj Jadhav

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Education

Bachelor of Computer Science, Dalhousie University – Halifax, NS Sept 2022 – Sept 2026

Coursework: Introduction to Cloud Computing, Data Structures, Database Systems, Web Development, Cybersecurity, Server-Side Scripting

Technical Skills

Programming Languages: Java, Python, SQL, JavaScript, HTML/CSS, Kotlin, NumPy, Matplotlib
Developer Tools: Git, GitHub, VS Code, PyCharm, IntelliJ, Android Studio, Postman, Wireshark, Jira
Frameworks & Libraries: React.js, Node.js, Express.js, Flask, Firebase, SQLAlchemy, Bootstrap, Power BI
Cloud & DevOps: AWS EC2, S3, Aurora MySQL, VPC, IAM, GitHub Actions, CI/CD Pipelines
Interpersonal Skills: Team Leadership, Effective Communication, Time Management, Problem Solving, Adaptability, Critical Thinking, Organizational Skills, Attention to Detail

Experience

Junior Web Developer Jan 2024 – Apr 2024
Nova Scotia Health Authority – Halifax, NS

- Contributed to the development of a secure Geriatric Drug Information Website using **React, JavaScript, HTML/CSS**, and **C#**, improving accessibility for elderly patients and healthcare professionals.
- Created and integrated **REST APIs** using **Express.js** to support user authentication, feedback collection, and role-based access control.
- Enhanced backend logic and optimized **MySQL** queries to enable dynamic admin features and secure healthcare data management.
- Collaborated in an **Agile** environment to deliver a responsive dashboard, resulting in a **12% improvement in user engagement** through better performance and usability.

Projects

Formula One Database Management System (Cloud-Hosted) Sept 2024 – Dec 2024

- Developed a dynamic **F1 racing database system** using **Python** and **MySQL**, structuring relational tables for **Drivers, Teams, Races, and Results**.
- Automated ingestion of real-time race data from **Kaggle APIs**, enabling dynamic updates to race standings and analytical dashboards.
- Designed **SQL procedures** for driver record updates, result analytics, and leaderboard generation.
- Deployed the backend via **Flask** on **AWS EC2**, migrated the database to **Amazon RDS (MySQL)**, and implemented secure access using **IAM roles** and **VPC security groups**.
- Enabled future scalability and monitoring using **CloudWatch logs**, and laid the foundation for public APIs via **API Gateway**.

Cloud-Based Appointment Booking System Apr 2025 – May 2025

- Architected and deployed a full-stack **appointment booking platform** using **AWS EC2, S3, Aurora MySQL**, and **VPC**, ensuring a secure and scalable cloud-native system.
- Developed a modular **Node.js + Express** backend to manage bookings, user authentication, and availability with **RESTful APIs**.
- Built a responsive **HTML + JavaScript frontend** integrated with backend APIs for dynamic appointment management and real-time confirmation.
- Implemented **role-based access control**, allowing users and admins to manage appointments, view reports, and send email confirmations.

QuickCash – Android Job Board App Oct 2024 – Jan 2025

- Built a mobile app in **Java** with **Firebase** backend to connect **employers** and **job seekers** based on **live location**.
- Integrated **Firebase Auth**, **cloud messaging**, and **REST APIs** for real-time job updates and secure user management.