

# SWATI SANGHAI

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Detail-oriented and adaptable Software Developer with hands-on experience in building secure, high-performance web applications using .NET, Blazor, and C#. Background includes 10+ years of combined experience in development and academia. Passionate about problem-solving, continuous learning, and contributing to impactful software projects. Proven ability to collaborate within Agile teams, write clean and maintainable code, and deliver solutions aligned with user and business needs.

## TECHNICAL SKILLS

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**Languages:** Python, JavaScript, Java, C#, SQL

**Web Technologies:** HTML, CSS, TypeScript

**API Technologies:** RESTful API Development, JWT Authentication, Entity Framework Core

**Tools:** AWS, Visual Studio, Visual Studio Code, Git, GitHub, JIRA, Trello, Figma, IntelliJ

**Database:** PostgreSQL, MySQL

## RELEVANT EMPLOYMENT EXPERIENCE

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### **Junior Software Developer – DuaTask Inc., St. John's, NL | October 2024 - Present**

- Developed and optimized Blazor WebAssembly applications using .NET 8/9, delivering responsive, high-performance user interfaces.
- Designed, built, and integrated RESTful APIs to support secure, data-driven workflows for a pharmacy compounding application.
- Implemented robust authentication and authorization mechanisms using JWT and ASP.NET Core Identity, enabling role-based access control across user roles.
- Managed data persistence and modeling with Entity Framework Core, ensuring efficient and scalable database interactions.
- Collaborated in Agile ceremonies, contributed to sprint planning, and practiced version control using Git to maintain code quality and traceability.
- Diagnosed and resolved bugs and performance issues, contributing to overall system stability and user satisfaction.

### **Website Developer – Scrum Master – Avalon Robotics, St. John's, NL | April 2024 – August 2024**

- Led an Agile team in developing and delivering a WordPress website, collaborating with the CEO on content creation and enhancing user engagement.
- Managed the product backlog, facilitated daily stand-ups, sprint planning, and retrospectives, ensuring efficient team coordination and timely feature prioritization.

### **Project Management Intern – Avalon Robotics, St. John's, NL | April 2024 – August 2024**

Successfully managed a \$1.2M project budget, conducting cash flow analysis, financial reporting, and strategic fund allocation to ensure project sustainability and efficiency.

- Led stakeholder collaboration to launch an AI and robotics training program for newcomers, overseeing project implementation, milestone tracking, and business operations support.

### **Assistant Professor | Academic Project Coordinator – ZCOE Pune University, India | 2012 - 2018**

- Collaborated on curriculum with seamless technology integration and incorporation of student feedback.
- Acted as Lab-In-Charge for Basic Electronic Engineering Labs, focusing on hands-on and enhanced learning for students.
- Coordinated student projects, fostering timely completion and effective team communication.
- Provided counseling and remedial classes for 30% of students, leading to improved performance and increased student confidence.
- Scheduled timetables for 8 divisions, optimizing resource allocation and meeting academic goals, facilitating smooth operations and academic progress.

## SUMMARY OF TECHNICAL PROJECTS

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### **Stock Market Prediction Using LSTM and RNN**

Implemented algorithms for time-series analysis in stock market data to capture long-term dependencies, leveraging LSTM and RNN for accurate and robust market forecasts.

**Tech Stack:** Python, TensorFlow, Pandas, Matplotlib, Streamlit, APIs

### **Airline Reservations System**

Developed a functional reservations system with a login page, reservations page, and additional options, enabling booking for flights, hotels, and rental cars.

**Tech Stack:** Java

### Credit-card-Fraud-Detection

Developed a credit card fraud detection system using a grid search algorithm to optimize hyperparameters, improving accuracy and efficiency in detecting fraudulent transactions.

**Tech Stack:** Python, Pandas, Numpy, scikit-learn (Random Forest Classifier, GridSearch CV), imbalanced-learn (SMOTE), Standard Scaler, joblib

### EDUCATION

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**Memorial University, NL, Canada – MSc. in Computer Engineering | Sept 2021 - Aug 2023**

### CERTIFICATIONS

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- Certified Scrum Master | Scrum Alliance [[LINK](#)]
- Data Analytics Virtual Internship | KPMG [[LINK](#)]
- Machine Learning | Coursera [[LINK](#)]
- CI/CD for Beginners | Simplilearn [[LINK](#)]
- GIT Version Control | Simplilearn [[LINK](#)]
- Python Data Structures | Coursera [[LINK](#)]

### VOLUNTEER EXPERIENCE

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- Assisted in managing the registration desk at the *Digital Offshore* event organized by TechNL, a not-for-profit organization focused on fostering innovation and growth in the technology sector.
- Supported event operations by managing the registration desk during the *Holiday Event* organized by Genesis, an organization dedicated to startup incubation and entrepreneurship.

### EXTRA CURRICULAR ACTIVITIES

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- Participated in *Hackathon Hack Frost NL 2.0* to enhance collaborative development skills.