

# Dhruv Saini

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## EDUCATION

**Northeastern University, Boston, MA** Expected May 2025

### Khoury College of Computer Sciences

Candidate for a Master of Science in Computer Science

GPA: 3.5/4.0

Related courses: Algorithms, Database Systems, Machine Learning.

### SRM University, Chennai, India

May 2020

Bachelor of Technology in Information Technology, GPA: 8.35/10.0

Related courses: Object Oriented Programming, Data Structures, Algorithms, Big Data, Software Engineering.

## TECHNICAL SKILLS

Languages: Java, JavaScript, Python, C++, C#, HTML/CSS, SQL.

Framework: Spring boot, React, Node.js, .NET.

Development Technology/Tools: Git, Postman, AWS, Azure, Data factory, MySQL, Docker, Kafka.

## EXPERIENCE

**Khoury College of Computer Sciences, Boston, United States** May 2023 - Present

Graduate Teaching Assistant

SQL | MongoDB(NoSQL) | AWS | RStudio

- Actively serving as a Teaching Assistant for CS5200 Database System, guiding and mentoring a class of students through database design principles and PL/SQL.
- Offering comprehensive support, resolving queries, and providing valuable academic assessments to enhance their learning experience..

### Publicis Sapient, Gurugram, India

July 2020 - December 2022

Associate Software Development Engineer - 2

Java | Spring Boot | Azure Cloud Services | Azure Data Factory

- Designed and created scalable web services for a B2B digital platform for a prominent North American client in logistics/shipping industry.
- Constructed a standalone POC on Data Factory, Resulted in reduced overall production server load by 22%.
- Designed and accomplished complex pricing and discounting engines with high code reusability and complete code coverage.
- Took individual ownership of analyzing, developing, and deploying multiple business-impacting features such as daily quotes reporting system and more.
- Recognized by development team and product owners for leadership and ownership qualities and sound business impact.

### Publicis Sapient, Gurugram, India

January 2020 - June 2020

Sde Intern

React | JavaScript | Java | Spring Boot | AWS | Jenkins

- Built a web-based learning platform for incoming sapient campus interns to provide an efficient learning management system and provide systematic assessment through various contests helped in screening 5000+ campus students.
- The gamification project polished all technical as well as leadership skills as a product engineer.
- Implemented Netflix Architecture and Micro-services framework leveraging React and Java Spring Boot.

## PROJECTS

**Northeastern University, Bank Fraud Detection, Scikit-learn| Python | Jupiter | PyTorch| Numpy** June 2023 - Present

- Currently working on a machine learning project at Northeastern University, focused on developing a classification model for bank fraud detection using supervised learning techniques.
- Collaborating with a team to analyze a publicly available dataset and implement algorithms such as Logistic Regression, Decision Trees, and potentially Neural Networks to accurately detect and classify fraudulent activities in the banking sector.
- Employing evaluation measures, cross-validation, and feature ablation techniques to fine-tune the model's performance and ensure its ability to generalize to unseen data. Expected outcomes include improved fraud detection accuracy and enhanced trust in the banking sector.

**Northeastern University, Logitt Application,** Node.js | React | Redux | API | SQL

January 2023 - May 2023

- The application is an ultimate stop solution for analyzing spending patterns, helping users save money and prevent wasteful expenditures by over 20%.
- Logitt empowers users to effortlessly track and record daily expenses in preferred currency.
- With a user-friendly dashboard, it has ability to track expenses in different categories such as Shopping, Groceries, etc.
- Logitt enables its users to stay on top of spending and make more informed financial decisions.

**Onskola -School Management System,** React | Redux | Java Spring | AWS | SQL

August 2020 - December 2020

- It was a group initiative intended to facilitate school students to get school life experiences during covid-19 pandemic phase.
- Utilized Java Spring Boot framework to develop user-based profiles(Admin, Teachers, Students, Parents) and dashboard APIs.
- Implemented Microsoft Teams integration with platform and Spring Security with OAuth for authentication based on user-specific profiles.

**SRM University, Smart Garbage Monitoring And Controlling System using IOT**

January 2020 - May 2020

- The project was initiated to support cleanliness drive the Swachh Bharat Abhiyan launched by the Government of India.
- A prototype was developed on an Arduino microcontroller. It is comprised of an ultrasound sensor to monitor garbage level.
- A metal detector and a moisture sensor were added to segregate metal and wet waste from garbage. All plastics and degradable items are managed using image processing.