

Dhruv Saini

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saini.dh@northeastern.edu | www.linkedin.com/in/saini-dhruv/ | www.dhruvsaini.us | Full Stack Development

EDUCATION

Northeastern University, Boston, MA - Khoury College of Computer Sciences Expected May 2025

Master of Science in Computer Science

GPA: 3.8/4.0

Related courses: Algorithms, Design Patterns (OOPs), Web Development, Database Systems, Machine Learning, AWS.

SRM University, Chennai, India

July 2016 - May 2020

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

TECHNICAL SKILLS

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

Framework: Spring, Spring boot, Django, ReactJS, Node.js, Express

Development Technology/Tools: AWS, Azure, Data factory, Databricks, SQL Servers, Kafka, BigQuery, Airflow, Jenkins.

EXPERIENCE

Addgene, Boston, United States

May 2024 - Present

Software Data Engineering Co-Op

Python | Django | ETL | Data Pipelines | Spark | BigQuery | S3 | Apache Airflow

- Redesigned ETL data pipelines to integrate TB-scale data from multiple sources (SnapGene/S3) into Google BigQuery.
- Conducted data integrity and performance audits using Spark and Python, enhancing processing efficiency.
- Contributed to the continuous development and delivery of functionalities for the Lab Information Management System (LIMS) and the public website.

Publicis Sapient, Gurugram, India

July 2020 - December 2022

Associate Software Development Engineer - 2

Java | React | Spring boot | RESTful APIs | ORM | Azure | Azure Data Factory | Azure SQL Database | Kafka

- Designed and deployed scalable micro-services in java and spring, with inter-pod communication via RestTemplate for a prominent North American logistics client. Resulted in a remarkable 45% increase in online booking quotes.
- Leveraged Spring Data JPA and JDBC Template for efficient database operations on Azure SQL. Employed Key Vault for secure data management and ensured transaction integrity via Logback logging.
- Researched and implemented automated database dumping and reporting using Logic Apps, Data Factory, and Databricks.
- Designed data pipelines for detecting, validating, transforming, and loading databases. Implemented a dual-database strategy, initially dumping to an inactive database, then seamlessly switching to the updated database upon completion, ensuring continuous data availability and integrity.
- Recognized by engineering team and product owners for leadership, ownership qualities and sound business impact.

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January 2020 - June 2020

SDE Intern - **React | JavaScript | Redux | Java | Spring | Postgres Database | Jenkins | Amazon Web Services | CICD**

- Engineered a full-stack learning platform, incorporating database schema design and Netflix architecture principles. Developed RESTful APIs with Spring Boot and JPA for seamless operations. Ensured security and deployed on AWS using Jenkins for CI/CD, streamlining learning for Sapient campus interns.
- Introduced a dynamic frontend experience with javascript and ReactJS, leveraging popular React libraries such as Redux, Hooks, React Navigation, Routers, Axios, etc.
- This full-stack journey deepened my expertise in unit testing, bug fixing and CI/CD pipelines while refining my skills in Agile methodologies and leadership.

PROJECTS

Image Processing Application, Core Java | Java Swings | Design Patterns

Sept'23 - Dec'23

- Implemented a Java-based image processing application, incorporating design patterns such as Command Design.
- Followed MVC Architecture to ensure a structured and maintainable codebase for diverse image operations.
- Developed the ImageProcessingModel to encapsulate image data, capturing essential file metadata.

Bank Fraud Detection, Python | Scikit-learn | PyTorch | Numpy

June'23 - Aug'23

- Accomplished on machine learning project involving the NeurIPS dataset, with 1 million rows and 32 features.
- Developed a bank fraud detection classification model using supervised learning techniques, achieving an accuracy of 86% using Gradient Boosting Machine.
- Conducted dataset EDA and implemented over 5 algorithms, including Logistic Regression, Decision Trees, Support Vector Machines (SVM), Gradient Boosting Machine, Random Forest, and Multilayer Perceptron.

Logitt Application, ReactJS | Java | Spring boot | JPA | AWS | PostgresSQL

Jan'23 - May'23

- Engineered a groundbreaking application, served as the ultimate solution for analyzing spending patterns, empowering users to save over 40% by avoiding wasteful expenditures.
- user-friendly dashboard, improved expense tracking across multiple categories, leading to user efficiency gains.