

# Soumik Paul

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## EDUCATION

**University of North Carolina at Charlotte**

GPA: 3.83/4.0 | Dec 2023

MASTER IN COMPUTER SCIENCE

**Institute of Engineering and Management**

GPA: 8.50/10 | July 2021

BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING

## SKILLS

**Languages:** Java, Python, C++, JavaScript

**Version Control:** Git, GitHub

**Frontend:** HTML, CSS, ReactJS, React Hooks, Redux, Bootstrap

**Databases:** MySQL, MongoDB, PostgreSQL

**Backend:** Spring Boot, Hibernate, JSP, NodeJS, ExpressJS, Django

**Data Visualization:** Tableau, AWS Quick Sight

**Other:** AWS, Docker, Linux, Agile Development

## WORK EXPERIENCE

**UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE | RESEARCH ASSISTANT**

Charlotte, NC | Feb 2023 – May 2023

- Utilized newspaper3k Python library to transform HTML links into text format and applied the **Bert Language model** to generate **embeddings**. Optimized and debugged the script, achieving a significant **65% reduction in time complexity**. ([Link](#))

**UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE | INSTRUCTIONAL ASSISTANT**

Charlotte, NC | Dec 2022 - May 2023

- Assisted lead instructor Dr. Gabriel Terejanu in delivering and designing course material, grading assignments, and providing academic support to 75 students.

**COGNIZANT | PROGRAMMER ANALYST TRAINEE**

Bangalore, India | April 2021 – July 2022

- Contributed in building efficient server-side applications with **NodeJS** and **ExpressJS**. Successfully integrated **REST APIs**, showcasing a notable **30% increase in data processing speed**.
- Implemented **MongoDB** and **Mongoose** modules in **Node.JS** for seamless database persistence and effective interaction with MongoDB, resulting in **25% improvement in application performance**.
- Migrated the Asset Management Application from **JSP** to **RESTful API** in **Spring Boot**, improving API response time by **50%**.
- Developed **REST API's** for server-side applications within a team of 5 using **Spring Boot microservices**, resulting in **35% increase in data accuracy**.
- Built and Deployed enterprise application built on **Spring Boot**, **Spring Data JPA**, **ReactJS** and **AWS**. Conducted unit testing with **Mockito**, reduced bugs and errors by **40%**.
- Used **Git** version control system and actively managed code repositories on **GitHub** to ensure seamless collaboration with team members and track project changes.

## PROJECTS

**LOAN REPAYMENT PREDICTION** [↗](#)

DEC 2022

Designed and deployed a loan repayment prediction system on **AWS**, leveraging **S3**, **Glue**, **Athena**, **QuickSight**, **Tableau**, and **SageMaker**. Employed **Random Forest** and **XGBoost** algorithms, achieving an impressive **95% accuracy** in loan repayment rate predictions. Automated data processing tasks with **AWS Glue ETL** jobs, resulting in a **50% improvement in efficiency**.

**YELP REVIEW ANALYSIS** [↗](#)

DEC 2022

Developed a Yelp review classification model with **Naive Bayes**, achieving an **85% accuracy rate**. Conducted sentiment analysis and employed Word Cloud visualization for data insights. Made use of **Django** for back-end development and **ReactJS** for the front-end, resulting in a responsive and user-friendly application.

**JOB PORTAL** [↗](#)

MAY 2021

Formulated a job search platform with a team of two, utilizing **PHP**, **HTML**, **CSS**, **Bootstrap**, **MySQL** and **JavaScript** to create a user-friendly interface and incorporate essential features such as data editing, updating, deletion, and addition.

**CAR PURCHASING AMOUNT PREDICTOR** [↗](#)

SEPT 2020

Constructed a car expenditure prediction model using **Artificial Neural Network**. Made use of Python libraries and frameworks like **NumPy**, **Pandas**, **Matplotlib**, **Seaborn** and **TensorFlow**, resulting in a **75% high accuracy rate**.

## ACHIEVEMENT AND CERTIFICATION

- Awarded **2nd prize in Hackathon** for developing a real-time hospital bed availability and blood reserves tracking system.
- Achieved a top **1% ranking** in TCS Digital coding context, solving complex algorithmic challenges efficiently.
- Certified Amazon Web Service: **AWS Academy Graduate -AWS Academy Data Analytics** ([Link](#))