

# Souradip Nath

971-317-1552 • snath8@asu.edu • [linkedin.com/in/souradip-nath](https://www.linkedin.com/in/souradip-nath) • [www.github.com/confusedDip](https://www.github.com/confusedDip)

## EDUCATION

### Master of Science in Computer Science

Arizona State University, Tempe, AZ

May 2024

GPA 4.0

- Recipient of “New American University Scholarship”

Fall 2022, Spring 2023

### Bachelor of Technology in Information Technology

Indian Institute of Engineering Science and Technology, Shibpur, India

May 2022

GPA 9.93/10.0

- Institute Topper (Undergraduate) 2022 – Recipient of “The President of India Gold Medal”
- Department Topper (Information Technology) 2022 – Recipient of “Silver Medal”

## TECHNICAL SKILLS

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

**Front-End:** HTML, CSS, React.JS, Bootstrap, EJS

**Tools, Databases, and OS:** Node.JS, Express.JS, Microsoft Office, MongoDB, Windows, Linux/Unix

## PROFESSIONAL EXPERIENCE

### Technology Analyst Intern, Deutsche Bank

Pune, Maharashtra, India

Summer 2021

- Worked on Data Analysis and Optimization Techniques using the Python Pandas library
- Proposed a solution for optimized job scheduling by analyzing real data, successfully predicting the minimum cost for the Google Cloud Composer platform
- Leveraged project management software JIRA to track the progress of the project and Git for version control

### Summer Research Intern, IEST, Shibpur

Howrah, West Bengal, India

Summer 2020

- Worked on “*Image Splicing Detection using Deep Neural Networks*” using Python frameworks Keras, Tensorflow, etc
- Proposed a technique to employ a deep convolutional network as a backbone, followed by a classifier network to classify authentic and spliced images
- Documented the work in the article “*Automated image splicing detection using deep CNN-learned features and ANN-based classifier*” published in SIVIP Journal (2021) by Springer

## RELEVANT PROJECTS

### Online Document Tracking System, Senior Year Major Project

Spring 2022

- Designed a web application with an **HTML** front-end and a **Node.JS** and **Express.JS** backend supported by a **MongoDB** database that helps create, manage and track documents issued within an organization

### Academic Search Engine, Junior Year Mini Project

Spring 2021

- Developed **MITgo**, an academic search engine to find recent publications of the Massachusetts Institute of Technology
- Used key techniques like web scraping, keyword extraction, indexing, query parsing, and ranking utilizing various **Python** libraries such as Scrapy, NLTK, etc.

### GUI Design of a Ribosomal Computing Simulator, Technical Assistantship

Spring 2020

- Created an interactive interface for an existing back-end logic dealing with Ribosomal Computing in the **Qt Creator** platform using **C++** and **QML**

## EXTRACURRICULAR EXPERIENCE

### Student Representative, Senate Undergraduate Committee, IEST, Shibpur

Aug 2019 – Aug 2021

- Attended weekly meetings to participate in the discussions held by the body on different academic issues as a student representative