

Nitish Poddar

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Education

University of Illinois at Urbana-Champaign

December 2021 (Expected)

B. S. Computer Science (College of Engineering)

Urbana, IL

Economics Minor

GPA: 3.96; Dean's List; James Scholar Honors Student

- **Courses:** Discrete Structures, Probability & Stats for CS, Data Structures & Algorithms, Computer Architecture, Numerical Methods, Software Design Studio, Applied Linear Algebra, Microeconomic Theory, Economic Statistics
- **Organizations:**
 - Member of the development team for HackIllinois, one of the nation's largest hackathons
 - Contributing to the development of the API which is being developed using Go and MongoDB
 - Member of ACM's Special Interest Group (SIG) for Data Science and Analytics (ADSA)

Experience

University of Illinois - Department of Computer Science

Aug 2019 – Present

Course Developer (CS 125 – Intro to CS)

Urbana, IL

- Developing a lecture slide tool in React.js with Gatsby to make a modular code editing tool which will be used by more than 1000 students each semester
- Will be working with websockets to develop a diverse set of tools for assistance during lectures

TIMAN Research Group

Aug 2019 – Present

Undergraduate Researcher

Urbana, IL

- Part of Professor ChengXiang Zhai's Text Information Management and Analysis Group (TIMAN)
- Working to port the User Centered Adaptive Information Retrieval (UCAIR) project to a server side model
- Experimenting to improve the relevance of the data presented to the user by the UCAIR agent

Supertron Infotech Pvt. Ltd.

Summer 2019

Software Development Intern

Kolkata, India

- Project lead for developing a query answering chat bot for a local university used by over 5000 applicants
- Developed the complete UI and server for the bot using React.js and Node.js
- Developed the database in MongoDB to store extracted query data for the university officials

Projects

Data Compression Library

github.com/nitishp1812/data-compression

- Working on a data compression library in C++
- Implementing Huffman Coding and LZW Compression alongside other algorithms

Gesture Recognition Engine (for ASL)

github.com/nitishp1812/gesture-recognition

- Implemented a neural network using Keras for the recognition of ASL (American Sign Language) gestures
- Training and improving the model based on ASL datasets available on Kaggle

Skills

Proficient: C++, Java, Python, Go, JavaScript, Android, React.js, MongoDB, Git, Node.js, Express.js, Flask

Familiar: HTML, CSS, Unix, SQL, Racket