

Nitish Poddar

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EDUCATION

University of Illinois at Urbana - Champaign

Champaign-Urbana, IL

B.S. in Computer Science, Minor in Economics

May 2022

GPA: 3.96 / 4.0, James Scholar Honor's Student

Coursework: Machine Learning, Artificial Intelligence, Algorithms, Real-Time Systems, Systems Programming, Data Structures, Computer Architecture, Applied Linear Algebra, Intro to Econometrics, Economic Statistics, Financial Economics

EXPERIENCE

Cargill | Software Engineering Intern

Champaign-Urbana, IL | Aug 2020 - Present

- Designing, building and testing prototypes as part of a team of developers, UX designers, data scientists and business analysts

Panasonic | Software Development Intern

Champaign-Urbana, IL | Jun 2020 - Aug 2020

- Collaborated as part of an Illinois Business Consulting (IBC) team for Panasonic in an Agile development process
- Developed a chatbot with **Python**, **Rasa**, **React.js** and **MongoDB** which uses Natural Language Understanding (NLU) pipelines to understand and answer questions based on information extracted from PDFs
- Created a production-ready real-time data processing pipeline to process and manipulate data with **Python** and **Pandas**
- Designed and deployed an interactive dashboard to display output from a data pipeline using **Docker**, **PostgreSQL** and **Grafana**

Koyejo Lab | Research Assistant

Champaign-Urbana, IL | Jun 2020 - Present

- Collaborating on an artificial-intelligence based agent for automated theorem proving
- Designing and implementing the neural network for the theorem-proving agent using **Python** with **PyTorch**
- Creating a dataset using language parsers and programming language compilers to train the agent on

Forward Data Lab | Research Assistant

Champaign-Urbana, IL | Jun 2020 - Present

- Contributing to **ListenOnline**, an app which allows users to collect and analyze data from social media platforms
- Developed a dashboard and file manager as part of an internal tool using **React.js**, **Node.js**, **Express.js** and **MongoDB**
- Creating a tool to generate **GraphQL** schemas from **Swagger** API descriptions with **Node.js**

Supertron Infotech | Software Development Intern

Kolkata, India | Jun 2019 - Aug 2019

- Built an interactive bot used by 5000+ people to aid prospective students through a local university's admissions process
- Developed the complete user interface, API and database for the bot using **React.js**, **Node.js**, **Express.js** and **MongoDB**
- Incorporated different conversation flows to allow the user access to information in an easy and interactive manner

PROJECTS

Gesture Recognition App

github.com/nitishp1812/gesture-recognition

- Created an application to recognize American Sign Language (ASL) gestures from the device camera and display the corresponding letters on the screen
- Implemented a convolutional neural net in **Python** with **Keras** along with **OpenCV** for image processing to extract and predict hand gestures from device camera video

Data Compression CLI

github.com/nitishp1812/data-compression

- Designed an app with a Command-Line Interface (CLI) to compress and decompress text files with various algorithms
- Incorporated knowledge of advanced data structures and algorithms to implement algorithms like Huffman coding and Arithmetic coding using **C++**

SKILLS

- **Languages:** Python, JavaScript, C/C++, Golang, Java, Haskell, R, HTML, CSS, MongoDB, PostgreSQL, MySQL, Solidity
- **Frameworks:** Flask, PyTorch, Tensorflow, Keras, OpenCV, Pandas, scikit-learn, Node.js, React.js, Express.js, React Native, Spring, Android
- **Technologies:** AWS, Docker, Git, UNIX, REST, Websockets, GraphQL, XMPP, Ethereum, LaTeX, Swagger, Grafana

LEADERSHIP AND ACTIVITIES

Illinois Business Consulting | Consultant

- Selected as a consultant for IBC, the nation's largest professionally managed student-run consulting organization
- Devising specific strategies for market entry, competitor analysis and technical feasibility problems for industry leaders

ACM @ UIUC | Member, SIG Blockchain

- Explored the concepts of blockchains and immutable ledgers by attending regular meetings and contributing to projects
- Developing a supply chain simulator as part of team with **Solidity** on the **Ethereum** blockchain