NISHI KANTAMNENI

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Profile

- Energetic and passionate student enrolled in Information Science, Systems, and Technology (ISST) BEng at Cornell University.
- Bringing forth a motivated attitude and knowledge in various programming languages such as Java, Python, OCaml, and BASH
- Technologically adept and have experience with collaboration suites, social media platforms, and advanced computer skills
- Able to effectively self-manage in independent projects as well as collaborate as part of a larger team

Education

Cornell University | Information Science, Systems, and Technology | May 2024

A junior pursuing a BEng in Information Science, Systems, and Technology (ISST) at the College of Engineering at Cornell.

Skills

- Experienced in Java, Python, UNIX, and GIT
- Experienced in React JS, Node JS, Express JS, Angular, and Web Development
- Experienced in Databases – Postgres, MongoDB, and MySQL
- Skillful in Bash, Ocaml, GO, R, C and Cloud technologies (AWS/Azure/GCP)
- Skillful in Docker/Containerization
- Expert at MS Office suite

Experience

Lavner Education

IT Intern | June 2023 – Aug 2023

- Intern providing high quality instruction on a variety of subjects such as Java, cybersecurity, and AI robotics in weekly technology camps
- Conducting private lessons in advanced data science topics

Cornell University

Research Assistant | Sep 2022 – Dec 2022

- Part of a mechanical engineering research team that is invested in the relation with force and Hooke's Law
- Optimized existing convolutional neural networks to train larger amounts of data
- Implemented recurrent neural networks to increase performance and efficiency

Dell Technologies

Software Engineer Intern | Jun 2022 – Aug 2022

Stack: JavaScript, Java, C#, Git, MongoDB

- Designing and writing code to optimize Dell's MyService360 website performance. Code written primarily in Java
- Extended existing logging framework to dynamically change logging levels to help in debugging issues/errors using Log4j

- Involved in preparing and developing various test cases for different scenarios and validation specific to the application. Wrote unit and functional test cases for each submodule with Java testing frameworks
- Garnered a broad and in-depth knowledge of different aspects of product development by working in a cross-functional agile team

IBM

IBM Accelerate Program – Software Development Track | Jun 2022 – Aug 2022

- 1 of ~500 students selected to participate in the Software Development track
- Developed a full-stack to-do- list web application using React JS, Axios, Express JS and Node JS through weekly rigorous lab assignments
- Learned the fundaments of web development including client vs server side, RESTful APIs, web frameworks, unit-testing, application security, and version control
- Learned Cloud, Red Hat OpenShift, Cloud Kubernetes Service, and CloudNative deployment

CodePath

CodePath Software Engineering Intermediate Track | Jun 2022 – Aug 2022

- Selected to participate in the intermediate Software Engineering track
- Covered Data Structures and Algorithms (DSA) weekly
- Working in a pod with other students to solve challenging programming questions

Google

CS Research Mentorship Program (CSRMP) Scholar | Feb 2022 – May 2022

- 3-month competitive virtual program during the Spring 2022 semester
- Working with mentee from Google who is involved in AI research
- Working in a pod with other students in the same field
- Research regarding applications of Natural Language Processing

Citi

Early ID Technology Program Intern | Feb 2022 – April 2022

- 5-week selective virtual program during the Spring 2022 semester
- Meeting with mentee from Citi weekly once to discuss and improve coding skills
- Attend Citi Technology Training and Affinity Webinars weekly
- Attend a mock interview with mentee and improve using feedback received

Cornell Computing and Information Science

Undergraduate Teaching Assistant: UNIX Tools and Scripting (CS 2043) | January 2022 – May 2022

- Holding weekly office hours where students may get help on homework, assignments, and any course concepts
- Updating weekly assignments
- Holding weekly meetings with course staff to discuss improvements to the course
- Monitoring and answering questions asked by students on Ed Discussions

Einsite (Invento Labs Private Limited)

Data Science (R&D) | May 2019

- Interned 40 hours a week
- Assisted in the backend development of the company's product in IoT
- Used R for data analysis and modeling
- Gained an in-depth knowledge of the IoT domain

Tata BSS (Business Support Services)

Data Science (R&D) | June 2018

- Interned 40 hours a week
- Analyzed the calls at the call center to increase customer satisfaction and improve employee efficiency
- Using Python, I analyzed the data and got conclusive results

Awards and Certifications

- Object Oriented Programming in Java | Microsoft | Nov 2019
- Learning to Program in Java | Microsoft | Nov 2019
- Programming for Everybody | MichiganX | Mar 2020
- Discrete Math and Analyzing Social Graphs | National Research University - Higher School of Economics | Jun 2020
- Data Science Math Skills | Duke | Jun 2020
- Data Structures and Algorithms | Microsoft | Aug 2020
- Cloud Computing Basics | LearnQuest | Jul 2020
- CS – The complete 2020 Software Engineer Master Bundle | CERTS School | Dec 2020
- AWS Certified Cloud Practitioner | Amazon | May 2021

Projects

GitHub Account: ***https://github.com/Nishi46***

Cornell Monopoly |OCaml

Worked with three other developers to create a text-based, Cornel themed, Monopoly game written in OCaml. We used compilation units to manage files and organize code and used the Yojson library to parse and retrieve data stored in JSON files. We additional used an ANSTerminal to create a colorful user interface and interactive board.

Jeopardy |Python & HTML

Wrote this program to model Jeopardy - the quiz show. The user can enter a question and answer in Jeopardy style and select a category to which the question and answer belongs to. The question and answer will be persisted in a MongoDB. These questions and answers can later be accessed based on the category.

Modeling Flu |Java

An assignment that was done as part of my work in the course CS2110 at Cornell University. Wrote this program to model the flu and it uses different factors to check how the flu spreads and who contracts it and who doesn't. I implemented a GUI to visualize the spread.

Computer Vision |Python

Wrote a program that places tracker boxes around the images and labels the boxes with numbers. Implemented this program using Python and OpenCV. If an object leaves the frame, it is assigned a new number, if not, the number and the box follow the object around the screen.

IPL (cricket) Analysis | R

Wrote a program that visualizes IPL (cricket) data in an easy-to-read form. Taking the data in a CSV format, the program analyzes it to produce graphs. The programs allow match and players statistics to be viewed and compared for analytical purposes.