

Shivangi Sharma

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EDUCATION

University of Illinois at Urbana-Champaign, Champaign County, IL
Bachelor of Science in Computer Science & Statistics

August 2019 – December 2022
Overall GPA: 3.3/4.0

Relevant Courses: Data Structures, Database Systems, Discrete Structures, Computer Architecture, Object-Oriented Programming Methodologies in Python, Software Development with Java, Methods of Applied Statistics with R, Economic Statistics, Microeconomic Principles, Business Law, Ethics

SKILLS

- Languages: C++, Python, SQL, R, Java, Verilog, MIPS, Swift, HTML, JavaScript, CSS
- Tools: Git, MongoDB, Neo4J, NoSQL, AWS, Web API, Web Scraping, SAS Programming, Docker, RStudio, Oracle Agile PLM, Microsoft Excel, Photoshop

WORK & EXPERIENCE

Research Assistant — Computer Science Department at UIUC

Feb 2021 – Present

- Developing an interactive social network visualization tool using xml datasets from DBLP database
- Constructing an xml parser in Python to efficiently parse through 5.4 million entries and obtain clean data to represent the relationship between authors on DBLP

Research Assistant — Agronomic Forecasting Lab at UIUC

Oct 2020 – Dec 2020

- Developed a crop modelling algorithm with R, Python, and Docker to automatically download and pre-process satellite images to predict effect of weather and other factors on crop growth
- Decreased time required for processing satellite images from Google Earth Engine by 30%

Engineering Intern — Sanmina Corporation

June 2020 – Aug 2020

- Designed and executed process of PCBA manufacturing alongside New Product Introduction engineering team
- Optimized company's use of Oracle Agile PLM cutting down data entry time by 40%

Office Assistant — Sponsored Programs Administration at UIUC

Oct 2019 – Jan 2021

- Assisted Processing and Records Management team with data entry, report resolution and related duties
- Strengthened data integrity within research enterprise at Illinois and secured about 200 sponsor contracts

Chief Marketing Officer — CodingForAll

May 2018 – July 2019

- Designed and launched new website maximizing outreach for nonprofit as Web Designer
- Established two new partner locations and implemented coding classes for 50+ underprivileged students
- Maintained online presence, implemented marketing initiatives, and created Java and Python curriculum

Intern: STEM Committee Communications Captain — Agents of Change

Mar 2017 – Jan 2019

- Appointed by US Representative Ro Khanna to lead a committee of 50+ students as communications captain
- Organized a 'STEM for All' Symposium with 150+ attendees to encourage inclusion of minorities in STEM
- Volunteered 250+ hours with Partners including: Our City Forest, Sacred Heart, Second Harvest Food Bank, etc.

PROJECTS

UIUC Course Web Application

- Creating a new course platform for CS 411 using SQL, GCP, Python, and modern web application stack
- Analyzing and reporting course and student progress using advanced queries and indexing

Flight Planner

- Designed a C++ application that graphs the shortest path between two airports using flight route databases

Image Language Translator

- Programmed an app to translate text from images into different languages using APIs, Java, and Android Studio

Conway's Game of Life

- Developed a Python implementation which accepts user inputted seeds and creates a unique song and visual animation of Conway's Game of Life using Pygame's visual and sound libraries

Twitter Bot

- Worked with Python, Tweepy, and Twitter API to implement a twitter bot that periodically tweets randomized motivational quotes obtained by web scraping various websites