

Maaheen Maajed

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EDUCATION

University of Illinois Urbana-Champaign

Dec. 2023

Bachelor of Science in Computer Science and Anthropology, Minor in Creative Writing

GPA: 3.97/4.00

Honors: Dean's List (Fall 2020, Spring 2021, Fall 2021, Spring 2022)

EXPERIENCE

Full Stack Software Engineering Intern

May 2022 - Present

Cargill

- Created parameterized data validation scripts using Python, pandas, NumPy, Matplotlib, and statsmodels to validate data and check for outliers in SQL databases
- Validated data by checking that data schemas were correct, data volume was within valid ranges, and that values stayed within certain statistical measures including IQR, z-score, and Cook's distance
- Set up automatic email alerts to send to specified users for manual review if any anomalies exist in the data

Campus Police Programming Analyst

Sep. 2021 - Present

University of Illinois Campus Police

- Conducted anthropological research supervised by Professor Jeff Martin, including focus groups and qualitative analysis through NVivo software, to determine UIUC student opinions of the campus police
- Redesigned frontend and improved content of the UIPD website to make information more accessible to students

Outreach Coordinator and Staff

Jun. 2021 - Jun. 2022

Summer of Side Projects at Illinois

- Worked on outreach to get 400+ student signups and to secure over \$1000 of funding from various corporations
- Provided guidance for classes of 400+ students in creating 100+ side projects
- Managed content on the site by writing and editing technical tutorials about various libraries and tools

Intro to Computer Science Course Staff

Jan. 2021 - Aug. 2022

Department of Computer Science at Illinois

- 1 of 5 Senior Course Staff leading 240+ staff to assist in teaching a course with over 1000+ undergraduate students
- Taught programming fundamentals in Java and Kotlin, as well as Android development, through office hours and the course forum
- Designed and implemented the staff mentorship program so that experienced staff would mentor junior staff
- Personally mentored 6 Course Associates to help them progress towards Senior Course Staff
- Created 3 audio/code walkthroughs to supplement lectures and teach imperative and object-oriented programming

PROJECTS

Wikispeedia | C++, Catch2

- Processed a subset of Wikipedia's database using C++ to develop graphs for further analysis
- Implemented graph algorithms to find the shortest path between two articles if it exists, and to determine the most used articles for all shortest paths

CyberBot2020 | Python, discord.py, sqlite3

- Developed a Discord chatbot which stores Cyberpunk 2020 and Cyberpunk Red characters in an online database
- Added CRUD functionality to allow users to create and edit their own characters, automatically calculate character stats, and post character info in formatted messages

TECHNICAL SKILLS

Languages: C++, Python, Java, Kotlin, HTML, CSS, Javascript, SQL

Developer Tools: Git, VS Code, IntelliJ

Libraries/Frameworks: pandas, NumPy, Matplotlib, CMake, tkinter, SQLAlchemy, sqlite3, Catch2, pytest