

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: 3.96/4.00

Relevant Coursework: Algorithms and Models of Computation, Computer Systems, Data Structures, Discrete Structures, Software Design

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

EXPERIENCE

Full Stack Software Engineering Intern

May 2022 - Present

Cargill

- Worked in an Agile team to create parameterized scripts for a 500% growth in data observability on SQL databases
- Created detailed, automated, deterministic tests for data observability
- Sped up data validation by 1200x using Python, pandas, NumPy, Matplotlib, and statsmodels by checking that data schemas were correct, data volume was within valid ranges, and searching for statistical outliers
- Automated 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 - Present

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 - May 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 through office hours and the course forum
- Designed and implemented the staff mentorship program for experienced staff to 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, C, Javascript, SQL

Developer Tools: Git, VS Code, IntelliJ, Linux CLI

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