

Maaheen Maajed

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EDUCATION

University of Illinois Urbana-Champaign

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

Dec 2023

GPA: 3.95/4.00

EXPERIENCE

Amazon Web Services

May 2023 – Present

Software Development Engineer Intern

- Created an API to process and show launch information about 200+ AWS services across 99+ regions using Java, DynamoDB, API Gateway, Smithy, Lambda, Pipelines, and CloudFormation for customers to view launches in a customizable timeframe and plan their use of AWS products accordingly
- Automated logging for API calls and stored in CloudWatch Logs to facilitate error handling and detection
- Created comprehensive unit tests with over 80% code coverage using Mockito to ensure code correctness
- Created frontend in React and integrated it with launch information API to display on front page of user-facing website so users can easily access launch information

Cargill

May 2022 – May 2023

Full Stack Software Engineering Intern

- Worked in an Agile team to create parameterized scripts for a 500% growth in data observability on SQL databases, and created automated, deterministic tests for these scripts
- Sped up data validation by 1200x using Python, pandas, NumPy, Matplotlib, and statsmodels by checking that data schemas were correct and data volume was within valid ranges, and searching for statistical outliers
- Automated email alerts to send to specified users for manual review of potential data anomalies
- Designed and implemented Power BI dashboard, and created automated pipeline to transfer environmental data into SharePoint Lists and Power BI

University of Illinois Campus Police

Sep 2021 – Sep 2022

Campus Police Programming Analyst

- 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

Summer of Side Projects at Illinois

May 2021 – Jun 2022

Outreach Coordinator and Staff

- Conducted outreach to get 400+ student signups for SOSP and over \$1000 of funding from various companies
- Wrote and edited technical tutorials to help students create 100+ chatbots, Flask apps, CLI programs, and video games

Department of Computer Science at Illinois

Jan 2021 – Present

Intro to Computer Systems Course Staff

Jan 2023 – Present

- Conducted office hours to teach 180+ students fundamental systems programming concepts in C and Python
- Constructed exam questions to test students' systems programming knowledge

Intro to Computer Science Senior Staff

Jan 2021 – May 2022

- Co-led 240+ undergraduate and graduate staff to assist in teaching a course with 1000+ undergraduate students programming fundamentals in Java and Kotlin
- Designed and implemented a staff mentorship program for more experienced staff to mentor junior staff
- Mentored 6 Course Associates to help them progress towards Senior Course Staff

TECHNICAL SKILLS

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

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

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