**Meghan Agarwal**

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# EDUCATION

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# University of Florida - *August 2020 – May 2024*

* Bachelor of Science, Major in Computer Science, Minor in Business Administration
* GPA: 3.5/4.0

**Coursework:** Operating Systems (C, C++), Natural User Interaction (C++, Python), Data Structures and Algorithms (C++), Information Systems and Databases, Macro/Microeconomics

# SKILLS

* **Languages**: C/C++, Java, KQL, SQL, C#, Python, JavaScript
* **Technologies**: Kusto Databases, Azure Data Explorer, Entity Framework, Docker, FHIR (Fast Healthcare Interoperability Resources) standard, Postman, PostgreSQL
* **Interpersonal**: Strong collaboration and leadership skills with an emphasis on written and verbal communication

**WORK EXPERIENCE**

# Microsoft Software Engineering Intern, *May 2023-August 2023*

* Developed and standardized queries to pull and filter data for supercomputing metrics using KQL
* Calculated and graphed metrics using Azure Data Explorer to help track and visualize the improvement and reliability of supercomputers
* Correlated supercomputer failure data with customer job failure data to track the reliability of supercomputer subsystems
* Integrated a new supercomputer into the automation pipeline for daily data fetching

# UnitedHealth Group – Optum Software Engineering Intern, *June 2022 – August 2022*

* Worked with a team to automate the acquisition and persistence of capability statements from FHIR servers, eliminating the need for manual inputs
* Queried and persisted data to Postgres Database using Entity Framework
* Designed methods to filter data pulled from servers and databases
* Initiated and led meetings to advance the team’s software development progress
* Maintained thorough documentation of code and technologies used to incorporate into hand-off plans

**University of Florida** Housing Desk Assistant**,** *October 2020 – Present*

* Maintained area desk records and materials through Microsoft Teams and Excel
* Accurately and efficiently handled student data while adhering to university policies and procedures
* Provided feedback to university departments regarding procedures and challenges
* Responsible for answering phone calls and emails, processing packages, and aiding residents and area staff

# PROJECTS

* **System Calls:** Implemented custom system calls in the Linux kernel along with static library functions that enable the system call to be invoked from a C API
* **$P Gesture Recognizer:** Created a command line offline recognizer that identifies gestures from the event stream using the $P gesture recognizer algorithm
* **Student Skills Assessment:** Worked in a team to create an app using Java and SQL that allows teachers to assess and manage their students’ academic performance based on in-app student participation

# OTHER

# UF Women in Computer Science and Engineering (WICSE): member and mentor for first- and second-year students

* People for Animal Wellness: fundraising and volunteering with animal rescues in Gainesville and the surrounding areas
* Interests: Creative Writing,Violin