Maggie Brooks
Software Engineer
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EDUCATION

Duke University | Bachelor of Science: Computer Science   Graduated: 05/2023
Certificate: Science and Society: Digital Intelligence

Coursework: Engineering Design and Communication, Data Structures and Algorithms, Computer Architecture, Data Science, User Interfaces, Information and Internet, Design and Analysis of Algorithms, Regression Analysis, Database Systems

Extracurriculars:
- *Explore Program Lead and Scholar Circle Lead,* Duke Technology Scholars
- *Treasurer*, Club Ski & Snowboard
- First-Year Advisory Counselor and Blue Devil Buddies Mentor

Universidad Carlos Tercero de Madrid   09/2021 - 12/2021

WORK EXPERIENCE

Full-Stack Engineer   12/2024 - Present
DSA Laboratories | Remote
- Built and maintained backend APIs in Python/Django for athlete data integrations
- Utilized Catapult API endpoints to integrate data collected from wearable technology to application
- Built dynamic tables displaying real-time player rankings and box score stats across leagues
- Developed roster spreadsheet upload to automate and streamline athlete profile creation
- Enhanced UI with tooltips, keyboard shortcuts, and migrated app styling to Tailwind CSS

Program Manager Intern   05/2022 - 08/2022
Microsoft | Redmond, WA
- Developed UI improvements for the Microsoft Edge Install & Update team to increase user retention
- Wrote KQL and performed failure analysis for Microsoft Edge browser

Data Engineer Intern   05/2021 - 08/2021
Headset | Seattle, WA (remote)
- Optimized Python scripts with regex to identify and document probable duplicates in product tagging
- Led creation internal SQL style guide and implemented linting process for code-readability
- Developed SQL queries and client-friendly dashboards to observe changes in product usage over time

Front-End Engineer Intern   12/2020 - 01/2021
Pandemic Relief Supply | Santa Barbara, CA (remote)
- Utilized React.js to create inventory modal for the company's internal website
- Built PDF generator with customizable product selection to personalize sales team interaction with client

ADDITIONAL

Duke Dining and Office of Information Technology: Food Points Tracker   06/2025 - Present
- Mentored students building full-stack web apps in Python/Django and React

Duke Energy Data Analytics Lab: Tracking Climate Change Using Satellites and AI   08/2022 - 05/2023
- Founded GeoNet: database of 10 million Sentinel-2 images selected using NumPy and Pandas
- Created self-supervised learning model using GeoNet to track causes of climate change

Team USA Athlete   03/2016 - 03/2019
Skyliners Synchronized Skating Team | New York, NY
- 2-time Junior World Team Competitor: 2019 (3rd), 2018 (2nd), 2017 (4th)

SKILLS

Technical Languages: Python (NumPy, Pandas, scripting), Java, JavaScript, TypeScript, R, SQL, HTML, CSS
Frameworks & Libraries: Django, React, Tailwind CSS, Node.js, Express.js
Languages: Proficient in Spanish
Interests: Wellness, Solo Backpacking, Winter and Water Sports