

Cecilia Barnes

Aspiring Data Scientist | cbarnes7@uw.edu | (404) 285 2112 | <https://www.ceciliabarnes.com/>

EDUCATION

University of Washington, Seattle WA

- Bachelor of Science in Engineering, Class of June 2021
- Studying Data Science in Human Centered Design and Engineering Major

RELEVANT SKILLS

Proficient In:

Python (*Pandas, Matplotlib, Numpy*)
Java (*Data Structures + Algorithms*)
SQL + Database Modeling
Web Development (*HTML, CSS, JavaScript*)
Data Cleaning + Analysis
Tableau + PowerBI

Familiar With:

Machine Learning Methods
R
Web Scraping
ETL Processes
AWS
Informatica

Snowflake
User Research
UI Principles
Visual Design
Technical Analysis Reports

EXPERIENCE AND PROJECTS

University of Washington IT Data Science Intern – September 2020 to Now

- Use data exploration, analysis, and modeling to find insights and make recommendations for UW student services to improve both the student and faculty experience
- Created Course Difficulty Index using student data to predict rate of students who will drop, fail, and withdraw (DFW) from a course using logistic regression which is used on campus services to help students compare courses and register for a manageable course load.

Accenture Summer Technical Analyst – June 2020 to August 2020

- Full stack developer of two web apps that were deployed for use by my 250-person project team that streamlined project management and documentation of ETL processes for the client
- Used Python, Django, and SQL to capture user form responses, log the data into databases, and filter and view the data on the frontend. Additionally, implemented a chatbot to help users navigate one of the sites.
- Assisted in migrating the client's data from source to target, implementing my skills in ETL processes using Informatica and gaining a certificate in data warehousing and Snowflake

Microsoft Stream Analytics Project Team Lead – January 2020 to May 2020

- Led a team to develop a database to track customer use for Microsoft Stream in order to increase revenue
- Was the primary communicator between my team and Microsoft's data engineer to understand company needs and organize team tasks to keep all members on track to meet deadlines.
- Used SQL to create the database and populate it with data, such as customer demographics and customer actions during each session on Stream. Then used this database to perform analytics on Power BI to get key findings that were presented to then be used to make actionable decisions by executives.

University of Washington IT Accessibility Assistant – September 2019 to March 2020

- Work on the Accessible Technologies team to assess the accessibility of programs, websites, and applications that the UW is interested in through manual code inspection, screen readers, and other assistive technologies
- Lead projects that involved organizing testing, compiling issue lists, and writing technical summaries of my accessibility findings to present and discuss my analysis with a given company's executives and development and design teams

References Available Upon Request