

# Kathleen Hablutzel

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## EDUCATION

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### Smith College

NORTHAMPTON, MA

Majors in Computer Science & Statistical and Data Sciences

*Expected Jan. 2023*

- 4.0/4.0 GPA
- **Zollman Scholarship:** Smith's highest academic scholarship, awarded to fewer than 10 entering first-year students
- **STRIDE Research Program:** Selective paid research assistant position in Smith's software engineering lab
- **Relevant Coursework:** Algorithms, Machine Learning, Network Security, System Defense and Test, Communicating with Data, Data Structures, Intro Data Science, Linear Algebra, Research Design & Analysis, Theory of Computation

## SKILLS & CERTIFICATIONS

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- **Technical Skills:** Python, Java, JavaScript, R, SQL, Angular, HTML/CSS, Git/GitHub, Tableau
- **Bank of America Tech University Badges:** Python, Artificial Intelligence, Data Management Fundamentals

## EXPERIENCE

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### Global Technology Sophomore Summer Analyst

CHARLOTTE, NC

Bank of America, *Corporate Treasury Data Horizontal Team*

*June - Aug. 2021*

- Automated joins and transformations in the Corporate Treasury data pipeline using **Pandas** DataFrames in **Python**
- Translated **Oracle SQL** data mappings into **Python** API to replace existing third-party data management software handling data integration for Bank of America's three corporate lines of business

### Software Engineering Research Assistant

NORTHAMPTON, MA

Smith College, *STRIDE Research Program*

*Sept. 2020 - Present*

- Drive implementation of automatic goal model merging in web-based requirements engineering goal modeling tool
- Foster **Agile** development practices employing Jira boards and weekly sprint planning meetings
- Refactored frontend model management features using **JavaScript**, **JQuery**, **JSON**, and **HTML/CSS**

### Data Fellow

CHARLOTTE, NC

Bluebonnet Data, *Cynthia Wallace for Congress*

*June - Nov. 2020*

- Performed tactical field analytics for Cynthia Wallace's campaign in the NC-09 Congressional District
- Identified over 2000 potential donors from publicly available data sources using the **Python BeautifulSoup4** library
- Visualized demographic trends in the district using the **ggplot2**, **sf**, and **leaflet** packages in **R**

## LEADERSHIP & ACTIVITIES

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- **Computer Science Department Liaison:** Serve as representative and mentor for peers in Smith's CS department
- **Computational Machine Learning Pedagogical Partner:** Develop decision tree and random forest classifier labs
- **Algorithms TA:** Tutored students in theory and implementation of algorithms and algorithmic design techniques
- **Smithies in Statistical and Data Sciences Treasurer:** Managed funds and organized department student/faculty lunches
- **Workday User Acceptance Testing (UAT) Assistant:** Evaluated Workday Student rollout from user perspective
- **The Amplifier Project Web Developer:** Built the virtual stage for Smith College Theater's Fall 2020 production

## AWARDS & INTERESTS

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- **Best in Design**, HackSmith 2021 for the [Unconventional Knitting Pattern Generator](#)
- **Honorable Mention**, 2020 Fall Undergraduate Statistics Class Project Competition, Intermediate Statistics
- **Arthur Ellis Hamm Prize** 2020
- **Smith College Dean's List** 2019-2020 and 2020-2021
- **Technical Computing Scholarship Award**, MathWorks Math Modeling Challenge 2019

**Interests:** Cryptography, Running, Theater, 16<sup>th</sup> Century British Politics