

Isabelle Williams

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EDUCATION

University of Michigan

Computer Science, B.S.
Class of 2020

- Focus in Data Science
- GPA 3.74

Relevant Coursework

- Machine Learning
- Web Systems
- Computer Security

Semester Study Abroad

Copenhagen, Denmark
Spring 2019

- Computational Analysis of Big Data

ORGANIZATIONS

- **Kappa Theta Pi**, pre-professional technology fraternity

RECOGNITION

- **Grace Hopper** Student Scholar (2019)
- **University Honors** (all 4 years)
- **JP Morgan Chase** Grand Prize Winner for Intro CS project (2016)

SKILLS

Languages: C++, C# and Python (proficient), React, Vue, Javascript, HTML, CSS, SQL (experienced)

Other Tools/Technologies: Git, MapReduce, Hadoop, scikit-learn, NumPy

WORK EXPERIENCE

Program Manager.....2020–Current

Microsoft | Seattle, WA

- Working in Identity on Azure Active Directory

Software Engineering Intern.....Summer 2019

Microsoft | Seattle, WA

- Designed and implemented a backend feature allowing customers to integrate on-premise sourced user data for token authentication

Software Development Intern.....Summer 2018

Desai Accelerator | Ann Arbor, MI

- Worked for 6 tech-enabled startups with a team of 10 interns
- Led team of co-interns to design and develop a dashboard for a company to see their 100,000+ users

Intro Python Instructor.....Summer 2020

The Coding School

- Teaching middle and high school students affected by COVID-19 virtual lessons

Course Instructional Assistant.....2019–2020

EECS 183: Elementary Programming Concepts

University of Michigan | Ann Arbor, MI

- Led weekly labs helping students apply course material to problem sets and projects

PROJECTS

Wikipedia Search Engine.....2018

- Utilized MapReduce to create an index of web pages, able to scale to large corpus sizes
- Implemented information retrieval based on tf-idf and PageRank scores, weight specified by user
- Designed a user interface in React for searching and viewing result summaries as well as relevant documents

Racial Bias in Nebraska's Public Crime Data.....2019

- Used pyplot to plot differences in sentence lengths by race, broken down by factors such as crime
- Used sklearn to create models to predict race and sentence length based off the data
- See full project on GitHub