

# Benson Gathee

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## EDUCATION

**University of Rochester**

**Expected graduation year, 2021**

**Bachelor of Science in Computer Science**

**Relevant Coursework:** Computation and Formal Systems, Introduction to Artificial Intelligence, Computer Organization, Data Mining, Machine Learning, Knowledge Representation and Reasoning in AI, Natural Language Processing

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## WORK EXPERIENCE

**Goldman Sachs**

**May 2020 - August 2020**

**Incoming Software Engineering Intern**

**University of Rochester**

**May 2019 - August 2019**

**Project Manager & Software Engineering Intern**

- Developed a web-based PHP financial planner tool to help 5,000+ students choose a housing and meal plan. Suggestions were based on a questionnaire and decision matrix supported by a MySQL database
  - Led the team of four software development engineers and a web content writer under the supervision of the Assistant Director of Web Communications
  - Helped to organize back-end data flow from databases using the Laravel framework
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## TECHNICAL & RESEARCH EXPERIENCE

**Research Assistant: Seminar on Knowledge, Inference, and Language (SKIL)**   **August 2019 - Current**

**Advisor: Prof. Lenhart K. Schubert**

- Developing a dialogue system for answering spatial questions in a simplified world of 3D blocks in Lisp and Python
- Collaborating with two students to create a public repository of various lexical resources that are used to create more expressive natural language understanding models with schema learning

**Technical Assistant: Vision and Learning**

**January 2019 - May 2019**

**Advisor: Dr. Chenliang Xu**

- Curated a dataset from YouCook2's 500+ instructional video dataset to aid in tasks such as activity recognition and video segmentation
  - Developed algorithms to perform automatic Q&A using machine learning techniques and the PyTorch library
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## SOCIAL ACTION PROJECTS AND TEACHING EXPERIENCE

**Kiongozi (kiongoziwaulimwengu.azurewebsites.net)**

**August 2017 - Current**

**Co-Founder & Program Manager**

- Co-founded Kenya's first student-run program to develop high school students into future global leaders. It provides a forum for 4,000+ students to discuss relevant issues, such as corporal punishment in Kenyan schools, the US college application process, and summer enrichment programs

**Teaching Assistant, Data Structures and Algorithms (CSC 172)**

**August 2019 - Current**

**Supervisor: Prof. Eustrat Zhupa**

- Run lab sessions for 20 students twice a week to help debug projects and coding assignments
- Teaching data structures, design and analysis, cost-benefit trade-offs, algorithms, and dynamic programming

**Teaching Assistant, Object-Oriented Programming (CSC 171)**

**January 2019 - May 2019**

**Supervisor: Prof. Ted Pawlicki**

- Graded coursework and held office hours for 15 students both online and in-person to help with Java assignments
  - Taught encapsulation, abstraction, inheritance, polymorphism, GUIs, exceptions, and recursion
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## LANGUAGES, TOOLS & FRAMEWORKS

- Java, C#, C, C++, Python, R, JavaScript, HTML, CSS, .NET Framework, Laravel, Bootstrap, SQL Server, UNIX