

# James N. Njoroge

jnjoroge@colgate.edu • (607) 353-3319

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## SUMMARY

Ambitious, diligent, and analytical student leader with a portfolio in software development, data analytics, and research, exemplified by outstanding academic performance and co-founding a student-run tech startup.

## EDUCATION:

### **COLGATE UNIVERSITY, Hamilton, NY**

Declared Double Major: Computer Science, Applied Mathematics – GPA: 3.73/4.00

Anticipated Graduation: May 2025

Dean's Award with Distinction for Academic Excellence: All Semesters, 2021-22 and 2022-23

Relevant Coursework: Calculus, Linear Algebra, Computational Mathematics, and Data Structures and Algorithms

Future Coursework: Artificial Intelligence, Software Engineering, Machine Learning, and Real Analysis

## EXPERIENCE

### **COLGATE UNIVERSITY – Hamilton, NY**

**2022 - 2023**

*Teaching Assistant, Computer Science Department*

*2023*

Develop and maintain strong and trustworthy relationships with professors and students to provide academic support and reinforcement. Assist students with homework and lab assignments in Python and Java Programming languages. Guide and debug students' work to strengthen their understanding of computer science concepts.

- Provide one-on-one tutoring and serve as mentor.

*Research Intern, Colgate University Data Science Collaboratory*

*2023*

Developed and maintained R Shiny applications for advanced statistical analysis of geospatial data, social networks, and textual corpora. Collaborated with researchers on ongoing projects, utilizing R Shiny applications to evaluate hypotheses and extract insights from complex datasets.

- Created user-friendly interfaces using R Shiny, making powerful R-based analyses accessible to diverse users without extensive programming knowledge.
- Improved data science accessibility at Colgate University by creating interdisciplinary tools that bridge statistical modelling and researchers from diverse disciplines.

*Survey and Research Analytics Assistant, Economics Department*

*2022*

Conducted economic research on domestic violence and its effect on agricultural economics in Western Kenya.

Collaborated with professor to acquire and clean collected survey data using Microsoft Excel. Examined research data for trends and anomalies in collaboration with a colleague, thus reducing the margin of error produced by the data.

- Translated qualitative survey data from Swahili to English for easier analysis.
- Supervised data collection and reviewed quality of collected data through field work.
- Evaluated research and survey-taking methods, and recommended bias-reduction techniques.

## SKILLS AND ACTIVITIES

- Extensive coding experience in Java, JavaScript, Python, R, C, MATLAB, React Native, and SQL programming languages. Additional experience with Docker, AWS, and ETL processes.
- Strong technical proficiency in Object-Oriented Programming and programming for data analytics, Microsoft Office and Google Workspace productivity suites, and Salesforce Cloud.
- Sloop Inc., Co-Founder – Student-run company that focuses on software development projects; currently has 10 employees. Projects include:
  - Use NLP to match current students with alumni based on biographies and other data points. (Python)
  - Rideshare app used by student drivers and riders on campus. (React Native, JavaScript, SQL)