

# Reetesh Sudhakar

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## EDUCATION

### Georgia Institute of Technology

Bachelor of Science in Computer Science

Atlanta, Georgia

Expected Graduation May 2024

- Concentrations: Artificial Intelligence and Modeling & Simulation
- GPA: 3.86/4.00 – Faculty Honors (2022), Dean's List (2021-22), Berlin Summer Abroad Program (May – August 2022)
- Relevant Coursework: Data Structures & Algorithms, Objects & Design, Computer Organization & Programming, Object-Oriented Programming, Linear Algebra, Discrete Mathematics, Multivariable Calculus, Computer Law

## EXPERIENCE

### Siemens Digital Industries Software

Software Development Intern

Remote

Dec. 2021 – May 2022

- Redesigned user interface for Siemens Software Center (SSC) in C++ by performing extensive research for optimal Human-Computer interaction. Led development of product renderings using Figma and implemented over 15 released features for SSC.
- Developed and deployed unit test frameworks to assist quality testing of installation, delivery, and user interaction features. Utilized the Google Testing Framework for performance testing in an agile development cycle with teams internationally.

### Georgia Tech Vertically Integrated Projects

Undergraduate Researcher

Atlanta, Georgia

Jan. 2022 – Present

- Training a deep neural network (DNN) model on ECG data across 1500+ subjects by performing common processing analyses, including denoising, peak detection, and temporal feature extraction, to optimize classifications for arrhythmia detection.
- Leading team of four in performing analyses based on accuracy, specificity, and sensitivity to assess and improve quality of proposed DNN in comparison with well-known classifiers, using datasets created to study 100+ unique movements and actions.

### Oregon Health and Science University

Research and Analytics Intern

Portland, Oregon

Mar. 2020 – Aug. 2021

- Analyzed and reviewed 250+ behavioral assays using 10+ novel protocols, IBM SPSS Statistics, GraphPad Prism, to study possible genetic protective pathways for Alzheimer's development in the Department of Behavioral Neuroscience.
- Facilitated and improved internal data organization standards for mouse colonies using Jupyter Notebooks to track colony upkeep and organization, yielding a 25% increase in efficiency for data retrieval, collection, and analyses across 15 collaborative projects.

## PROJECTS

### Sentiment Analyzer Bot

Jan. 2022

- Built Telegram messaging bot to provide sentiment analysis of Twitter users' accounts on a daily level with configurable sample sizes, retrieved using the Twitter API and normalized with NLTK Tokenize and regular expressions.
- Generated sentiment analysis of scraped user tweets using the Google Natural Language API, providing bot users efficiently with an average sentiment from a given Twitter user based on classifications utilizing the Telegram Bot API.

### URL Shortener

Sep. 2021

- Created Flask web app to shorten URLs with random generated alphabetic redirected links using HTML and Python.
- Managed database using SQLAlchemy links to redirect users using previously created redirection URLs to prevent duplication and maximize user convenience.

## ACTIVITIES AND LEADERSHIP

### Delta Tau Delta Fraternity, Gamma Psi Chapter

Director of Philanthropy & Community Service

Atlanta, Georgia

Nov. 2021 – Present

- Organized events to raise \$30,000+ funds for Juvenile Diabetes Research Foundation, heart disease causes, environmental impact funds, and stroke prevention nationwide.
- Held several joint events with organizations across Georgia Tech campus and the Greater Atlanta area to increase participation in philanthropy and community service events and to strengthen campus relations.

### Fremont Debate Academy

Vice President, Special Projects

Fremont, California

Apr. 2020 – Present

- Implemented and mapped 20+ curriculum targets in accordance with 100+ Common Core State Standards to introduce debate classes to 7 Oregon middle schools.
- Introduced Middle School Public Debate curriculum to 50+ teachers and volunteer instructors nationwide to introduce debate as a course offering in elementary and middle school districts in Fremont, CA and Broward County, FL.

## SKILLS

**Technical Skills:** Python, Java, C++, HTML, CSS, JavaScript, PyCharm, IntelliJ IDEA, Qt Creator, Anaconda, GitHub, Git/Tortoise Git, IBM SPSS Statistics, GraphPad Prism, Metaboanalyst

**Business Skills:** Agile Methodologies, Product Management, Business Analysis, Teamwork, Leadership, Problem-Solving

**Professional Certifications:** Product Management First Steps, Project Management Foundations, Project Management: Technical Projects, Agile Product Owner Role: Foundations, Product Management: Building a Product Roadmap & Building a Product Strategy