

# Swapnil Srivastava

 Clemson, SC  843-217-1089

 LinkedIn  GitHub  swapnils3051@gmail.com




A curious Computer Science graduate student at Clemson University with a desire to learn and excel. Five years of experience in Software Development. Well versed in CS fundamentals, Human-Centered Computing, Specification, Testing, and Data Structures. Interested in advancing the physical and psychological capacity of human endeavors through technology. Fueled by ambition and driven by goals.

## Experience:


### Johnson & Johnson Inc: **Software Developer**

**Mar/2021 - Mar/2022**

- Front-end development of new insurance portals and maintenance of legacy software. Required involvement in multiple projects simultaneously and coordination amongst people from a variety of domains.
  - Required to meet tight deadlines, work as a team, and function independently when needed.
-  Tools being used: Angular, C#, JavaScript, Microsoft SQL Server, NodeJS, JSON, SOA, HTML, CSS, and Git.


### Mission Solutions Group: **Contracted Front-end Developer**

**Jan/2021 - Mar/2021**

- Worked on the TigerAI project. This AI system is designed for object recognition from live drone video footage.
  - Created internal software that uses the project requirements to filter through available talent.
-  Tools used: VueJs, Buefy, ArangoDB, JIRA, Bitbucket, Figma, Node.js, Linux, Docker, Python, and Kubernetes


### TekSystems: **Contracted Software Developer**

**Jun/2020 - Dec/2020**

- A high paced business critical project to transition away from Adobe Flash. Adhering to Agile development.
  - Created a modern and responsive front end for the existing software and tweaked the backend accordingly.
-  Tools used: Java, JavaScript, JQuery, MySQL, JSP, AWS, Maven, J2EE, SOA, and Ajax.

### Martina Publishing Inc: **Part-time Full Stack Web Developer**

**Aug/2016 - Aug/2019**

- A diverse role with responsibilities ranging from website development to graphic designing.
  - Created the company website to manage book sales and market other functions of the company.
  - Was freelanced to create personal websites for authors of the company.
-  Tools used: Angular, C, Java, .Net, SQL, Node.js, Express, HTML, CSS, Python, JavaScript, and Django.

## Education:

**Clemson University: MS in Computer Science** GPA: 3.5

**Aug/2022 - Present**

**College of Charleston: BS Computer Science with Math minor**

**Aug/2017 - May/2020**

GPA: 3.654 | Received Outstanding Student Award.

## Current Research: **Understanding interdependence in Human-AI Teams**

At the TRACE lab in Clemson, I am currently researching Human - AI teams and the technologies to foster such collaboration. Co-authoring a research paper about interdependence and its influence on HAT.

## Published Work:

### Designing a Recommender System to Recruit Older Adults for Research Studies

Clemson

- Derived design implications from guided interviews of older adults.
- Designed a prototype of the system based on design implications
- Tested prototype through a series of thing aloud tests
- Such a recommender system can provide the older adult community useful support in selecting research studies that fit their preferences and limitations.
- Helping us engage the older population of our society in a meaningful way.

Link to paper: [Click here](#)

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## Other Research and Projects:

### Physical and digital prototype of a Human-Centered system for Collaborative, Community-Driven Artistic and social engagement

Clemson

- Motivated by the Clemson city goals to bring disparate communities together.
- We built a human-centered system prototype for the artistic collaboration
- Our system allows community members to organize and participate in other social events as well.
- 'Voting on community issues' is a key feature that empowers individuals and strengthens the local community.

### Nightscout Automated Unit Testing Framework Software engineering project.

- A Python script to automate unit tests for the open source Nightscout repository.
- Created framework to compare test results with expected results. This comparison would be reported in an html file asynchronously using javascript.
- Tools used: Node, Python, Javascript, HTML, NPM

### Activity Tracking System Software Architecture project.

College of Charleston

- A system that allows users to track their activity and sleep quality.
- This system was designed with an agile development cycle.
- Implemented using the MVC architecture.
- Use cases and user stories were used to determine most important functionalities and system requirements.
- Rigorously tested to guarantee accuracy.
- Tools used: Java and JUnit.

### Op-team-al software for Booz Allen Hamilton (Capstone Project)

College of Charleston

- An Employee Management system as well as a Project Management system.
- The 'Opteamal' software allows an administrator to assign employees to suitable projects. It allows the creation of teams based on strengths and compatibility.
- Was responsible for a secure and efficient system architecture.
- Created a dashboard containing graphical representations of important data.
- Tools used: Django, Python, SQLite, Trello, Github.

## Technical and Social Skills:

Java	Python	JavaScript	Web Development	Good Communication
Angular	HTML & CSS	HCC	Front-End Dev	Good teammate
React	SQL	NodeJS	Solution oriented	Positive and Driven