

# Swati Adhikari



swatiadhikari20@gmail.com



662.202.8122



12300 Foxridge Ln Blacksburg, VA, 24060

Portfolio: <https://sadhika7.github.io>

GitHub: <https://github.com/sadhika7>

LinkedIn:

<https://www.linkedin.com/in/adhikariswati/>

## EDUCATION

### VIRGINIA TECH

Blacksburg, VA

Master's in Computer Science Candidate

(Expected graduation December 2022)

Global Online Engagement Graduate Assistant at  
the College of Engineering

### UNIVERSITY OF MISSISSIPPI

Oxford, MS

Bachelor of Computer Science (May 2020)

Completed coursework towards Data Structures  
and Algorithms, Database Management, Discrete  
Mathematics and Probability, Fundamentals of  
Data Science, Introduction to Computer  
Networks, Software Design and Development,  
Statistics

## SKILLS

**Front End:** jQuery, AJAX, HTML5, CSS,  
Bootstrap, Angular

**Back End:** Node.js, Express.js, MVC, Spring,  
Maven

### Database and Data Analysis Tools:

PostgreSQL, MySQL, MongoDB, SQL, NoSQL,  
Elasticsearch, Firebase, Microsoft SQL Server

**Cloud-Based Technologies:** Hadoop, Spark,  
AWS

**Methodologies:** Agile Software Development,  
Scrum, SDLC, Object Oriented Programming,  
Test-driven Development

## EXPERIENCE

### DATA ANALYST INTERN

University of Mississippi, Oxford, MS / Aug 2019 - Apr 2020

- Big Data and Visualization (Python, Spark, SQL, Hadoop, Machine Learning Algorithms).
- Developed a sockpuppet detection tool to scrub over 2.6 million Reddit accounts with 80% accuracy identifying fake accounts.
- Optimized data collection procedures and generated reports on a weekly and monthly basis.
- Wrote queries and trained the data with the entities of a list of sockpuppet accounts published on Reddit.

### SOFTWARE ENGINEER INTERN

Ericsson, Plano, TX / May 2019 - Aug 2019

- Managed Services (Python, Elasticsearch, Selenium, Logstash, Kibana).
- Developed a proof of concept to analyze and visualize Network Packet files provided by customers to help engineers tackle complex network problems with Elasticsearch and Kibana.
- Performed web automation on data from RedHat with Python and Selenium and conducted data cleansing to further organize the data.
- Collected, organized, analyzed, and disseminated information to analyze datasets using SQL.

## PROJECTS

### Natours Site

- Collected, organized, analyzed, and disseminated information to analyze datasets using SQL.
- Built a travel and tours web app allowing users to create itineraries for vacations and book directly with tour groups using Stripe API payments
- Enhanced the security of the application by programming authentication and authorization using JSON Web Tokens
- Programmed a RESTful API using Node.js which in turn communicated with the frontend to process and store all the tour, user, and user reviews data in MongoDB

### Social Networking site for Students

- Built a social networking site allowing students to have discussions with fellow classmates where they can post discussions, like and comment
- Successfully launched the site to ~10 classes helping students with collaborative learning and time management
- Programmed the site using HTML5, CSS, Bootstrap, jQuery, JavaScript, AJAX, MySQL, SQL and used sessions to ensure the security of the application

### Food Delivery App

- Developed a Food delivery web app allowing restaurant owners to add their restaurant information to the database, customers to order meals from a variety of the restaurants and drivers to register and deliver the orders to customers
- Worked on data modeling and designed the database
- Programmed the site using HTML5, CSS, Bootstrap, jQuery, JavaScript, NoSQL, and Firebase following SCRUM and Agile methodologies.