

Swati Adhikari

2403 W Springfield Ave, Champaign, IL 61821 • swatiadhikari1997@gmail.com • 662.202.8122

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

EDUCATION

University of Mississippi, Oxford, MS

May 2020

Major: Bachelor of Science, Computer Science, Minor: General Business

Cumulative GPA: 3.78/4.00

Relevant Coursework: Data Structures and Algorithms, Database Management, Discrete Mathematics and Probability, Fundamentals of Data Science, Introduction to Computer Networks, Software Design and Development, Statistics

RESEARCH EXPERIENCE

Undergraduate Research Honors Thesis on “Detection of Sockpuppet Accounts on Reddit” under the supervision of Dr. Philip Rhodes at https://egrove.olemiss.edu/hon_thesis/1534/

Department of Computer Science, University of Mississippi, Oxford, MS

January 2020 – May 2020

Undergraduate Researcher, Security and Big Data Analytics (PySpark, SQL, Hadoop, TF-IDF, k-Means clustering, multilayer perceptron classifier)

- Studied and analyzed the detection of over 2.6 million Reddit accounts retrieved and stored in the dirt cluster of Computer Science department
- Optimized data collection procedures and generated reports on a monthly basis
- Wrote queries and trained the data with the entities of a list of sockpuppet accounts published on Reddit

HONORS AND AWARDS

Dean’s Honor Roll, University of Mississippi, Oxford, MS

2020

Grace Hopper Scholar, AnitaB.org: Global Organization for Women Technologists

2018

Academic Excellence Scholarship, University of Mississippi

2016 – 2020

PROFESSIONAL EXPERIENCE

Vastika Inc., Irving, Texas

August 2020 – Present

Java Developer Intern (Java, J2EE, Spring, Hibernate, Oracle)

- Involved in Analysis, Design, Coding and Development of custom interfaces
- Designed and maintained the interface and backend services for the web application using Java and J2EE technologies like Spring, Hibernate, UI
- Stored and retrieved data to and from the Oracle database using Java related technologies

Ericsson, Plano, TX

May 2019 – August 2019

Data Analyst Intern, 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

- 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

Food Delivery Web App

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

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 on posts

- Programmed the site using HTML5, CSS, Bootstrap, jQuery, JavaScript, AJAX, MySQL, SQL and used sessions to ensure the security of the application

Maze Recognition Model

- Created a maze recognition model using feedforward neural network with 90% accuracy differentiating maze and non-maze
- Used randomized Kruskal's algorithm to create mazes

Image Analysis

- Created a motion detection model from images of University cameras using Python and OpenCV by splitting layers, greyscaling, masking, and image processing

UNIVERSITY SERVICE

Distance Learning Facilitator

January 2019 – April 2020

Division of Outreach and Continuing Education, University of Mississippi, 2019-2020

- Assisted students with distance learning including managing individual schedules, individual or small group web conferencing, log in assistance, assignment oversight and tracking
- Assisted faculty to teach in an online environment

Student Assistant

October 2016 – December 2019

Leadership and Counselor Education, Department of Education at University of Mississippi, 2016-2019

- Helped with filing and maintaining student records
- Organized and planned events for students within the Department
- Received calls, assisted the faculty and served as a student representative for the Department

PROFESSIONAL AFFILIATIONS

Association of Computing Machinery at OleMiss, Past Member: 2019-2020

AnitaB.org, Active Member: 2019 – present

TECHNICAL SKILLS

Language: Java, Python, JavaScript, C, PHP, Golang, XML, JSON

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

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

Database and Data Analysis Tools: PostgreSQL, MySQL, MongoDB, SQL, NoSQL, Elasticsearch, Firebase, Pandas, NumPy, Matplotlib, Seaborn

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