NIKITA MANDLIK

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Education

Binghamton University, SUNY | Watson College of Engineering and Applied Science. Expected Graduation: Dec. 2022
Master of Science, Computer Science
Relevant Courses: Data Structures and algorithms, Operating System, Programming Languages, Computer Architecture, Cloud Computing, Data Mining, Design Patterns, social media, and data science pipeline.

MKSSS Cummins College of Engineering for Women, Nagpur, India May 2021
Bachelor of Engineering, Computer Engineering

Technical Skills

- **Programming Languages:** C, C++, Python, Java, JavaScript
- **Databases:** MySQL, MongoDB, PostgreSQL
- **Web Frameworks:** HTML, CSS, Flask, Django, React JS
- **Cloud Services:** Google Cloud Platform, Amazon Web Services, Kubernetes, Distributed systems, AWS SAM, AWS Lambda, AWS Elastic Beanstalk, S3

Professional Experience

Teaching Instructor, Girls Who Code Binghamton | Binghamton, NY. Aug. 2022 - Present
- Teaching C++ to High school and Middle school Students
- Preparing teaching modules and syllabus for weekly classes and coding projects

Full Stack Intern at Global Health Impact Project | Binghamton, NY. Sep. 2021 - Apr. 2022
- Managed to development of the User Interface (UI) for forecasting tool using CSS and JavaScript
- Performed comprehensive analysis of existing website functionalities and increased the website traffic by 78%

Internship at 3GIRPS IIT Madras | Nagpur, Maharashtra, India June 2020 - Aug. 2020
- Created and updated existing website for an educational institution using ReactJS and JavaScript for user interface
- Migrated a new database on MongoDB and increased data retrieval period by 4.1 seconds per query

Academic Projects

Movie review System using GCP | Link | Team Members: 4 Apr. 2022
Programming Language: Python
- Used Google Natural Language API for classification of IMDB movie reviews and devised a scoring mechanism for movie verdict
- Designed a bootstrap and flask-based web application to show movie verdict and containerized using Docker

Distant learning Catalogue deployed on Serverless architecture | Link | Team Members: 3 Apr. 2022
Programming Language: Python
- Contributed to the development of Django-based application containing the information related to the 300+ universities' distance-learning courses
- It has been deployed using AWS SAM, AWS Lambda, and Zappa for Serverless architecture and increase the response time by 30%

Pipeline Simulator Computer Architecture | Link Feb. 2022
Programming Language: C++
- Created a pipeline simulator and worked on the code for cycle-by-cycle for 3 stages in C Language
- Build additional features based on architecture processes execution, register fetch, and write back

Analysis of Student Attentiveness Using Machine Learning Techniques | Team members: 4 Apr. 2021
Programming Language: Python, R
- Analyzed a few important factors related to student attentiveness and gave a generalized report about it
- Collected and filtered a student dataset containing the required factors

Publications

Mishra, A., Londhe, C., Dambhare N, **Mandlik, N.** et al., *Analysis of Student Attentiveness Using Machine Learning*. Journal of Research in Computer Science and Engineering, Volume 6, Issue 1, pp. 39-46.

Leadership Experience

Co-Founder of Robotics Club | Cummins College of Engineering
- Contributed to the development of the curriculum and hosted workshops that included coordinating speakers for 65 different topics associated with Robotics and its applications.
- The sessions also included Hands on coding for students in fields of Robotics in relation with Artificial Intelligence.