Nikhil Yachareni

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Education

University of Wisconsin-Madison — Madison, WI
GPA: 3.62**, Bachelor of Science in Computer Science, Certificate in Data Science* — ***Sep. 2020 – May 2023

University of Wisconsin-Madison — Madison, WI
Master of Science in Computer Science — ***Sep. 2023 – Aug 2024***

Experience

Grader/TA, Computer Science — Madison, WI
UW-Madison Computer Sciences Department — ***Sep 2023 – Present***

- **Selected** as a grader for course CS 368 (Python for Java Programmers). Managing grading of assignments for over 50 students.

.NET Developer Intern — Lisle, IL and remote
Koch Industries, Molex — ***May 2023 – Aug. 2023***

- **Used** ASP.NET MVC 5 Framework in Visual Studio and SQL Server Management Studio.
- **Created**, **debugged**, and **added** features for internal .NET applications for manufacturing plants in Lincoln, NE.
- **Improved** technical skills and soft skills with Principle Based Management working as part of a .NET team.

Intern, Youth Navigator Program — Hyderabad, India
Infosys — ***Oct. 2019 – Nov. 2019***

- **Drove** a team of 5 to win Best Project Idea at Youth Navigator Program 2019. **Created** wireframes using HTML5 and CSS for a site that eases college application processes.

Founder — Hyderabad, India
The Vistaar Foundation — ***2018 – 2020***

- **Founded** an NGO to provide varying free-of-cost educational assistance to underprivileged students in orphanages.

Projects

C, Python

- **Jpeg retriever (runscan, C)**: scans disk images present in ext2 file systems, and extracts full jpeg images and deleted jpeg images from datablocks using inode bitmaps, inode tables, and superblocks.
- **Concurrent storage (mapreduce, C)**: concurrent map reduce infrastructure for large-scale data processing tasks. Includes Mapping/Reducing phases with Mapper/Reducer threads allowing for concurrent data storage.
- **Loan Analysis using Trees (Python)**: Analysis of UWCU bank loan data on the basis of race using trees, and relationships between property value and loan amounts in Madison, WI.
- **Model for selling laptops (Python)**: tracks user data, specifically seconds spent on a laptop html site, and based on multiple factors, predicts probabilities of laptop sales to visiting users.

Technical Skills

Languages: Java, Python, C, C++, C#, Rust, HTML5, CSS, R, SQL
Developer Tools: Git, Google Cloud Platform, Visual Studio, VS Code, SQL Server Management Studio, Eclipse
Libraries and Frameworks: pandas, NumPy, Matplotlib, ASP.NET MVC 5

Coursework

Relevant Coursework: Algorithms, Operating Systems (C and x86), Database Management Systems (SQL, C++), Big Data (Python), Matrix Methods in Machine Learning, Cloud-Native Database Systems (Fall 2023), Machine Learning (Fall 2023), Probability and Information Theory in Machine Learning (Fall 2023), Artificial Intelligence (Python), Data Structures and Algorithms (Java), Object-Oriented Programming (Java), Machine Organization and Programming (C and x86), Data Programming II (Python), Data Modelling (R), Electrical Engineering (Arduino Nano), Data and Algorithms: Ethics and Policy, Machine Learning with Python, Pantech e-learning.

Other

U.S. Citizen, **References**: Available on request