Nithila Annadurai

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Education:

University of Connecticut, Storrs, CT   May 2024
Bachelor of Science, Computer Science & Bachelor of Arts, Psychological Sciences Honors
- **GPA:** 3.86/4, STEM Scholar & Dean's List Recipient Fall '20, '22 and Spring '21, '23
- **Relevant Coursework:** Data Structures & Object-Oriented Design, Algorithms & Complexity, Big Data Analytics, Data & Text Mining, Functional Programming Fundamentals, Cognitive Psychology, Cloud Computing, Modeling of Cognitive Processes, Introduction to Machine Learning, Introduction to Artificial Intelligence

Skills:

Programming: Python, SQL, PySpark, JavaScript, ReactJS, Haskell, Scheme, MATLAB, R, JMP, SAS, HTML, CSS
Methodologies: Agile Software Development, Scrum principles, object-oriented programming, functional programming
Other: Git, AWS (Certified Cloud Practitioner), Autosys, Airflow, Snowflake, Databricks, Kubernetes, Docker, Excel

Relevant Experience and Projects:

The Hartford, Hartford, CT   June 2024 - Present
Associate Data Engineer
- Design and automate ETL pipelines using Autosys, Snowflake, and GitHub to streamline first and third-party data ingestion and transformation across multiple projects
- Lead XML data exploration initiatives, developing custom parsing scripts and presenting structured insights to cross-functional teams to support analytics use cases and model development
- Partner with data scientists and engineers to support model deployment and troubleshooting
- Contribute to team culture and mentorship by organizing employee engagement events and mentoring two summer interns through onboarding and project execution

Optum
Software Engineering Intern - Eden Prairie, MN   June 2023 - Aug 2023
- Designed, developed, and tested a single page web application to validate configuration files and display the errors using ReactJS
- Used GitHub actions to continuously deploy application to Kubernetes
- Presented in code reviews and Shark Tank style demos and contributed to the documentation of the software development process to uphold coding standards and ensure clear communication within team

Software Engineering Intern - Hartford, CT   June 2022 - Aug 2022
- Designed and developed dashboard tool that provides data insights and metrics for Scrum teams with Rally integration using ReactJS
- Collaborated closely with project manager and cross functional teams as Scrum master and developer to prototype and troubleshoot application

Dynamical processes in rat observational learning, Storrs, CT   Sep 2022
- Created programs using MATLAB, Python, and DeepLabCut to detect rearing behaviors and depict positional frequencies of rats during observational learning to determine indicators of successful learning
- Created recurrence plots using recurrence quantification analysis in R to further analyze rat learning behaviors
- Presented at NEURON and International Behavioral Neuroscience Society conferences and received the UConn IDEA Grant for this project

Undergraduate Teaching Assistant, Storrs, CT   Jan 2022 - Dec 2022
Introduction to Python TA
- Organized and delivered weekly lessons on introductory Python
- Conducted weekly labs, office hours, and review sessions to provide one-on-one and group assistance to students

Code Ninjas, Manchester, CT   Jan 2021 - Sep 2021
JavaScript Instructor
- Taught JavaScript coding activities and conducted summer camps to promote interest in computer science for children ages 6-10

Extracurricular:

Optum Data Science Competition   Nov 2022
- Earned 2nd place by analyzing County Health Rankings Data to determine which features contribute most to hospitalizations by using Python and various libraries (pandas, seaborn, matplotlib, scikitLearn)

Sanskriti   Sep 2020 - May 2024
- Held Vice President and Public Relations Chair positions
- Organized events and performances across the Northeast to preserve and celebrate Indian classical arts and culture