


Rahul Nagarajan

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EXPERIENCE

Data Engineer

Sept. 2023 – Present

People Tech Group Inc.

Redmond, WA

- Led 3 generative AI proof-of-concept projects using Flask and Streamlit, resulting in the acquisition of a strategic client focused on advanced conversational AI solutions. Demonstrated up to an 80% increase in driving client engagement through these AI innovations.
- Architected and developed various highly scalable AI applications utilizing AWS services, including S3, Athena, Glue, and Beanstalk. Designed microservice-driven systems optimized for both security and cost-efficiency through serverless functions and containerization.
- Currently working on a multi-turn chatbot with session history tracking and a QA-based search application, serving clients in the finance and retail sectors.

Research Assistant

Dec. 2021 – May 2023

Cal Poly Pomona PolySec Lab

Pomona, CA

- Initiated a novel research project exploring EEG signals for user authentication through machine learning models.
- Engineered the full design and deployment of project modules to enhance EEG signal pre-processing, feature extraction, and selection; enhancing overall system accuracy by 10%.
- Research accepted to IEEE BigData 2023 for publication.

EDUCATION

California State Polytechnic University, Pomona

Pomona, CA

Master of Science in Computer Science; GPA: 4.0

Aug. 2021 – May 2023

SRM Institute of Science and Technology

Chennai, India

Bachelor of Technology in Computer Science and Engineering; GPA: 3.42 (8.65/10)

July 2017 – May 2021

CERTIFICATIONS

AWS Certified Cloud Practitioner

Certificate Link

Issued: Jan. 2024

Expires: Jan. 2027

PROJECTS

EEG Authentication Model (Python) — Repo

- Constructed an EEG-based user authentication model using Python (Pandas, NumPy, SciKit-Learn and PyTorch).
- Enhanced FFNN model accuracy from 93% to 96% through meticulous hyperparameter tuning.

Job Application Tracker (Python, Flask, SQLAlchemy) — Repo — Live

- Developed a web-based application using Flask to manage and track job applications.
- Incorporated SQLAlchemy for ORM functionalities, enabling seamless database interactions.
- Enhanced user experience with Bootstrap; facilitated efficient data retrieval with advanced sorting capabilities.
- Implemented comprehensive CRUD operations, ensuring smooth management of job application entries.
- Employed dynamic routing to adapt user interface based on custom preferences and filters.

SKILLS

Programming Languages: Python, C++, Java, JavaScript

Libraries and Frameworks: Flask, FastAPI, JQuery, SpaCy, NumPy, Pandas, SciKit-Learn, PyTorch, Argilla, Bootstrap, SQLAlchemy, Streamlit, Langchain

Cloud Platforms: AWS, Azure

Databases: MySQL, PostgreSQL

Machine Learning: Regression, Classification, Clustering, Neural Networks

Software Engineering: Agile, Scrum, Object-Oriented Programming, Unit Testing