

Rahul Nagarajan

🐙: github.com/Rahul2K20

🌐: [linkedin.com/in/rahulnn](https://www.linkedin.com/in/rahulnn)

🌐: rahulnagarajan.com

Current Location: Redmond, WA

Email: additya.nagarajan@gmail.com

Mobile: +1-909-940-2616

EDUCATION

California State Polytechnic University, Pomona

Master of Science in Computer Science; GPA: 4.0

Pomona, CA

Aug. 2021 – May 2023

SRM Institute of Science and Technology

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

Chennai, India

July 2017 – May 2021

EXPERIENCE

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. This improved overall system accuracy by 10%.
- Exceeded project supervisor expectations by delivering high-quality research within stringent deadlines, aiding the forward momentum of the research group.

Data Analyst Intern

Jun. 2019 – Jul. 2019

Aegis Info Business Solutions Pvt. Ltd.

Chennai, India

- Leveraged SQL for data analysis to uncover critical trends that were transformed into actionable business strategies, contributing to a 2% boost in sales.
- Utilized Power BI to develop comprehensive dashboards and visualizations, simplifying complex data sets into easily comprehensible insights for data-backed business decisions.

PROJECTS

EEG Authentication Model (Python) — [Link](#)

- 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.

Resume Parser (Python) — [Link](#)

- Built a resume parser using SpaCy's Named Entity Recognition (NER) system.
- Trained and validated the model to consistently extract key information from various resume formats.

Control Flow Graph Generator (Java) — [Link](#)

- Created a Control Flow Graph (CFG) Generator in Java to visualize code execution paths from source code.
- Differentiated code blocks and tracked control flow, improving comprehension and debugging processes.

Geo Quiz App (Kotlin) — [Link](#)

- Designed and implemented a GeoQuiz mobile application using Kotlin.
- Accomplished all bonus challenges from the Big Nerd Ranch Guide, enhancing app features such as cheat prevention, localization, and advanced lifecycle management.

BRCM System (Java, PostgreSQL) [Link](#)

- Directed end-to-end system development lifecycle from requirement specification to architecture design, enhancing comprehension and communication of system functionalities.
- Devised an efficient data structure by consolidating redundant entities, improving data integrity and operational efficiency.

SKILLS

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

Tools and Libraries: Git, Flask, FastAPI, Power BI, SpaCy, NumPy, Pandas, SciKit-Learn, PyTorch

Database Management: SQL, MySQL, PostgreSQL

Machine Learning: Regression, Classification, Clustering, Neural Networks

Software Development: Agile, Scrum, Object-Oriented Programming, Test-Driven Development