

# Raahul Nair

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## Skills

**Programming Languages:** Python, Java, JavaScript, MySQL, HTML, CSS

**Technologies:** Generative AI Tools (ChatGPT, Claude, Bard, Bing), Cloud Computing (AWS), DevOps, API Development, Version Control Systems (Git)

**Specializations:** AI Development, Financial System Automation, Project Management, Unit Testing, Database Management, Production Run Management

**Languages:** English, Hindi, Punjabi, Malayalam

## Experience

### Software Analyst Intern

Georgia State University

Atlanta, GA, USA

10/2022 - Current

- Contributed to the development of Aurora's enterprise-level software Foodpro, enhancing system data management used by the university, thereby supporting the generation of **\$5 million** in annual revenue.
- Conducted **Python** and **SQL** analyses to optimise financial transactions and monitor production runs, enhancing system efficiency (22+).
- Developed and managed microservice applications with **Java** and **JavaScript** to streamline financial processes.
- Collaborated with cross-functional teams, including data, engineering, and product teams, to integrate root cause analysis and **revamp system modules**, leveraging **DevOps** and **API development**.
- Managed continuous improvements, including handling reassign requests, conducting category reviews, and performing robust load and stress testing.
- Utilized **AWS** for cloud computing solutions and maintained version control with **Git** to ensure seamless project management and unit testing..

### Director

ARAAN WORLD

Bangalore, India

08/2020 - 08/2022

- Founded and spearheaded an avant-garde student-oriented college counselling service to the distinctive needs of students, with a paramount emphasis on making university counselling affordable for students aspiring to get into the top universities abroad
- Managed a team of counsellors and collaborated on data analysis and dashboard creation using **SQL** and **Tableau**.
- Developed and trained a sophisticated Neural Network Language Processing (NNLP) algorithm to analyse university metrics, enabling personalised application processes.
- Led the development of a sophisticated Neural Network Language Processing (NNLP) algorithm for personalised university applications, utilising **Python** and **AWS systems**.
- Developed web-based tools using **HTML**, **CSS**, and **JavaScript** to support the counselling service platform.

## Courses Taken

**University GPA: 4.0**

**PRESIDENTS LIST AND DEANS LIST AND HONOR ROLL STUDENT**

- CS1301
- CS1302
- Data Structures and algorithms
- Database management ( Backend DBMS)
- Object Oriented Programming ( OOPS for Python)
- System Level Programming
- Linear Algebra
- Advanced Calculus for Computer Science ( Cal I and II completed with A's)
- Permutation combination for CS ( Stats + Vector Analysis )
- Discreet Mathematics For CS ( Disc + Theoretical foundations)
- Enterprise perspectives ( GLS )
- Web Dev ( HTML and CSS )
- Computer Organisation ( C and C#)
- Mobile App Dev

## Education

### Bachelors of Technology

Georgia State University

Atlanta, GA, USA

08/2022 - 05/2025

- Majoring in Computer science Engineering and Applied Physics.

## Projects

- **Neural Network Algorithm:** Developed a high-level NLP algorithm using TensorFlow and Keras to understand university metrics and tailor applications.
- **NanoGPT:** Created NanoGPT, a chatbot-based AI voice assistant using OpenAI's GPT-3 to assist people with speaking anxiety. (05/2023)
- **Speech Recognition Software:** Built an AI-based speech recognition software leveraging Python and PyTorch to handle diverse voice profiles.(02/2022)
- **Recommendation system using surprise:** Designed an advanced recommendation system using the Surprise library for collaborative filtering in Python. (12/2021)
- **Automated Email Sender:** Developed an automated email sender using Python's smtplib and sched libraries to send emails based on various triggers. (01/2020).

## Others

- **Gold Award:** Won Gold Thrice at International English Olampyaid.
- **Dot:** Served over 200+ hours of community service and organised a city-wide cleanup drive.
- **Silver medal:** Won silver at state level Longjump and track and field.
- **Rank A medal:** Won a college-level boxing tournament.