Avinash Palliyil

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EDUCATION

Georgia Institute of Technology *Atlanta, GA*
Bachelors/Masters of Computer Science *Expected Undergraduate Graduation: May 2025*
GPA: 3.83/4.00
Awards: 3rd Place Overall Hack (Hacklytics), CYC Case Competition Top 3 Overall, Faculty Honor's (1x), Dean's List (3x)

PROJECTS

Spotify Playlist Blender - Hacklytics 2022
- Created a formula that measured compatibility amongst playlists given multiple user-inputted playlists and mood
- Queried Spotify API to test existing playlists and create new playlists with our custom formula
- Collected over 800 different metrics per accessed song for analysis using Python
- Identified the most significant/relevant data points across songs to return a blended mood playlist

EXPERIENCE

VIP Researcher – Innovation Management *Atlanta, GA*
Georgia Institute of Technology *August 2023 – Present*
- Identified the need to optimize Georgia Tech's research processes to enhance efficiency and effectiveness
- Conducted interviews with Georgia Tech research administrators to gain insights into existing pain points
- Created fishbone diagram and root cause analysis from over 20 research administrator and faculty member testimonials
- Designed UX solution for InfoReady, Georgia Tech's limited submissions competition portal for grant funding

CS 1301 Undergraduate Teaching Assistant *Atlanta, GA*
Georgia Tech School of Computing Instruction *May 2023 – Present*
- Enhancing student learning in an intro CS course by providing guidance and fostering a collaborative learning environment
- Leading a team of 6 TAs responsible for creating practice problems to help students grasp various programming concepts
- Initiating integration of Intelligent Tutoring system to support 550+ students across 3 lecture sections.
- Directed weekly recitations for 100+ students across 2 summer sections and designed effective practice materials
- Managed exam-related tasks, including curating practice materials and grading, ensuring student success

VIP Researcher – FishStalkers: ML for Fish Behavior *Atlanta, GA*
Georgia Institute of Technology *January 2023 – May 2023*
- Worked on AI Education subteam focusing on teaching of AI concepts
- Built tutorials in Google Colab for various ML foundational concepts, including NumPy, pandas, linear algebra and statistics
- Synthesized culminating tutorial that taught tutees to train a k-means clustering model using the Iris dataset
- Organized and held symposium for Masters and PhD students to learn ML concepts for application in their research

Front End Developer *Atlanta, GA*
Georgia Tech Student Government Association IT Board *September 2022 – September 2023*
- Identified key product requirements to build an app simplifying office hours handling within the College of Computing
- Collaborated with a team of developers to design and build the Course Queues app
- Designed UI mockups using Figma and implemented front-end features using Angular, emphasizing design thinking skills
- Gained hands-on experience in full-stack development, project management and collaboration with cross-functional teams

RELEVANT COURSEWORK

- Psychology Research Methods
- User Interface Evaluation/Design
- Data Visualization
- Computer Organization and Programming
- Data Structures and Algorithms
- Algorithms Design and Analysis
- Discrete Mathematics
- Combinatorics

CAMPUS & COMMUNITY INVOLVEMENT

Data Science @ Georgia Tech, *Member* *August 2022 – Present*
- Student-run data science organization developing students' technical skills through organized club projects and workshops

Product @ GT, *Member* *August 2023 – Present*
- Club focused on developing product-minded thinkers and leaders through workshops and speaker events

SKILLS

Technical: Python, Java, pandas, NumPy, SQL, Datawrapper, Tableau, Jira, Angular, AWS, Excel, HTML, CSS
Professional: Agile methodologies, Project management, Design thinking, Public speaking
Interests: playing tennis, discovering and mixing new music, working out, watching documentaries, playing chess