

Nikhil Upadhaya

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Education

University of Georgia – BS in Computer Science

Aug 2022 - May 2025

Skills

- **Programming:** Typescript, Javascript, Python, Next JS, React.js HTML/CSS, Java, Kotlin C++, C , R,
- **Tools:** Tailwind CSS, Tableau, Git, Android Studio, Agile

Experience

Software Engineer, Avila IT – Remote

Aug 2024 – Present

- Built and maintained scalable internal commerce tools in TypeScript and JavaScript for **Google's Shopping platform**, improving productivity for internal teams across global markets.
- Gathered requirements and delivered solutions used by 8,000+ internal users, contributing to 1.6M+ monthly page views on **Google's Shopping platform**.

Software Engineer, Georgia City Solutions – Atlanta, GA

May 2023 – Aug 2024

- <https://dashboard.gacitysolutions.org>
- **Designed and deployed** 4+ interactive dashboards using **Next.js, React, and Tailwind CSS**, enabling city officials to analyze programs more effectively across Georgia.
- **Integrated** libraries like **Material UI, Clouinary, Deck.gl, and ArcGIS** to deliver real-time visual insights to **500+ users**, improving accessibility to key statistics and geospatial data.

Research Assistant, Georgia Institute of Technology – Atlanta, GA

May 2022 - May 2023

- **Developed** Python scripts to create a dataset tracking **startup migration across Metro Atlanta**, supporting visual analysis of emerging tech hubs for academic research.
- **Automated** PDF document processing using **OCR technology**, increasing scraping efficiency by **60%** with **85% text accuracy**.
- **Implemented** fuzzy matching algorithms to streamline data verification, **boosting validation speed by 11%** across datasets.
- **Optimized** data workflows by leveraging **multiprocessing**, reducing processing time by **40%** during large-scale analysis.

Leadership

Logistics Lead, UGA Robotics

May 2023 - Present

- **Secured and managed** \$2,100 in sponsorships and **coordinated logistics** for a robotics event hosting **50 teams and 200+ attendees**, ensuring smooth execution.
- **Contributed to the design and manufacturing** of the 3lb combat robot **Yeetus**, which **placed 3rd and 4th** in two competitive robotics events.

Data Team Lead, UGA Small Satellite Research Lab

Aug 2023 - Aug 2024

- **Led research** on computer vision algorithms including **SFM, SLAM, SIFT, and NeRFs** to convert satellite and drone imagery into high-resolution **3D point clouds** for terrain reconstruction.
- **Supported procurement** of a **\$50,000 drone** with multispectral sensors, enabling accurate terrain mapping and enhancing **real-world testing capabilities** for lab research.

Projects

E-Cinema-Site, UGA

Jan 2025 - May 2025

- Led a team of five in the end-to-end design and implementation of E-Cinema-Site, a full-stack online movie-ticket booking platform featuring role-based administrative controls for managing movie listings, showtimes and reservations.

Spotify Auto DJ

- Developed a bot using the Spotify Web API to aggregate partygoers' favorite tracks, automatically generate a dynamic playlist, and seamlessly stream music during events.