Arav Arora

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EDUCATION

Georgia Institute of Technology, Atlanta GA   Aug. 2023 – May. 2026

Candidate for B.S. in Computer Science, Threads in Intelligence and Systems/Architecture

GPA: *4.0, Faculty Honors*

Relevant Coursework: *Object Oriented Programming, Data Structures and Algorithms, Discrete Mathematics, Computer Organization and Programming, Objects and Design*

TECHNICAL KNOWLEDGE

Languages/Frameworks/Libraries: *Java, Python, SQL, JavaScript, TypeScript, HTML/CSS, EJS, Node.js, React, Next.js, Vite, Redux, Express, JUnit, Bootstrap, TailwindCSS, Vue.js, FastAPI*

Developer Tools: *Git, AWS, Postman, Google Cloud Platform, Google Apps Script, VS Code, Eclipse, IntelliJ*

Certifications: Responsive Web Design, JavaScript DSA, Front End Development Libraries, Back End Development and APIs (*all achieved on FreeCodeCamp between March - July 2024*)

Extracurriculars: GT Football Video Operations Staff, GT Data Science Club

EXPERIENCE

KTBYTE Computer Academy   Lexington, MA

Tutor + Teacher Assistant   *July 2022 – Present*

- 2022/2023 School Year: Taught a year-long course (4 students) focusing on the fundamentals of Object-Oriented Programming and preparation for the APCS exam.
  * Created and graded problem sets utilizing practice questions from prior AP exams and the KTBYTE question bank.
- Summer 2024: Working as a TA, holding weekly office hours and helping students with homework/problem sets for the KTBYTE Advanced Java Courses (Core 5a/Core 5b).

Camp Tahattawan   Littleton, MA

Technology Specialist   *Summers 2021 – 2023*

- Planned and implemented engaging and educational STEM activities for over **200+** campers in grades K-6.
  * Activities included Hour of Code, Scratch Jr, Scratch, and Kahoot!.
- Facilitated week-long coding projects for 4th-6th graders, introducing them to building engaging mini-games/graphics through Python Turtle.
- Introduced K-3 campers to simple coding fundamentals by designing simple animation cards in Scratch.
- Maintained the camp's 40 computers and 10 tablets, including troubleshooting and software maintenance to support all necessary activities.

PROJECTS

Littleton Youth Soccer Club Evaluation Software   April 2024 – Present

- Co-designed and developed a **full-stack web application** for LYSC soccer evaluators to administer soccer tryouts, resulting in automated talent-based team generation based on an innovative player-evaluation algorithm.
  * Used to generate teams for **over 400 soccer players**, saving approximately **40 hours** compared to the prior paper-based evaluation format.
- Developed custom Google Apps scripts (JavaScript) to automate data handling and processing tasks, seamlessly integrating with Google Sheets for data storage, validation, and real-time player score updates/sorting.
- Fine-tuned a BERT model (using a dataset of prior evaluator comments) for sentiment analysis to effectively analyze evaluator feedback.
- Deployed and managed the Node.js application for LYSC Evaluation Software on AWS EC2

TheRolePlayer.co, Co-Founder | *MERN Stack*   May 2024 – Present

- Built a sports blog aimed at **bridging the realms of finance and sports analytics.**
  * Ex: Utilized the Efficient Frontier Model to analyze the NBA's most balanced 2-way players.
- Created a lightweight frontend using React, employing Bootstrap and CSS to design a responsive and simplistic newspaper design.
- Developed **RESTful API** endpoints using Node.js/Express to facilitate communication between the frontend and the article database (MongoDB).