

# Sahil Gupta

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## EDUCATION

B.S. Computer Science: **University of Massachusetts Amherst** GPA: **3.85 / 4.0** Graduation: **May 2023**

- **Distinctions:** Dean's List, Chancellor's Award Scholarship
- **Coursework:** Machine Learning, Artificial Intelligence, Natural Language Processing, Search Engines, Operating Systems, Computer Networks, Database Systems, Software Engineering, Data Structures & Algorithms

## SKILLS

**Languages:** Java, Python, TypeScript, JavaScript, Kotlin, SQL, C++, C  
**Frameworks:** React, React Native, Node.js, Express.js, Selenium, Git, Linux  
**Technologies:** AWS, Firebase, Android, Git, Linux  
**Databases:** DynamoDB, PostgreSQL, MongoDB, MySQL

## WORK EXPERIENCE

**Frontend Intern** **AudioShelf** **Nov 2022 – Feb 2023**

- Worked on AudioShelf mobile app for streaming audio books using React Native in TypeScript
- Implemented caching in the app, reducing server load by 30% thus improving app performance and user experience
- Incorporated deep linking for seamless navigation between the mobile application and external sources
- Performed code reviews to maintain high code quality and performance standards
- Added 6+ new features, raised 15+ issues, and resolved 12+ bugs

**Software Engineer Intern** **Altius Strategic Consulting** **May 2022 – Aug 2022**

- Architected AWS services such as Lambda, DynamoDB, API Gateway, S3 into the mobile application
- Developed client-facing user interface and implemented user authentication via Firebase

**Software Developer** **CICSoft** **Feb 2022 – Present**

- Developed and integrated new features for the organization's admin dashboard
- Conducted bootcamp sessions on Android and React Native for 50 plus students which enabled them to learn and explore the field of mobile development.

**Undergraduate Research Volunteer** **University of Massachusetts Amherst** **Dec 2021 – Jan 2022**

- Developed an image classification model on CIFAR-10 dataset using neural network
- Transformed images to word embedding using gloVe word embedding
- Utilized cosine similarity between word embedding as metric for classification

**Software Engineer Intern** **KPMG** **May 2021 – Aug 2021**

- Developed a web scraper in Python, using BeautifulSoup library which scraped news articles based on provided keywords
- Implemented Machine Learning algorithms on different data sets along with hyperparameter tuning for higher efficiency

## PROJECTS

- **Elena:** Developed an Elevation based Navigation system using React which assists hikers and bikers find the shortest path to their destination based on minimum total elevation
- **UTrack:** Engineered the backend functionality of a web application using Node.js & MongoDB which enhances employees' productivity by providing task organization, performance reviews, paid time off applications and various other features
- **Dhwani:** Engineered a sentiment detection model, using Decision Trees in Python, which classifies an audio recording into sad or angry emotion using audio features such as pitch, MFCC and amplitude with an accuracy of 80%
- **PageRank:** Designed and developed PageRank algorithm in Java for application on a set of 1.4 million URLs and analyzed the result of inlinks count versus PageRank score of 75 top-ranked links

## LEADERSHIP

**Captain, Badminton Team** **University of Massachusetts Amherst** **Sep 2021 – Present**

- Coached and led the team to 2nd position in Yonex North-Eastern Collegiate Team Championship

**Computer Science Peer Tutor** **University of Massachusetts Amherst** **Sep 2020 – Dec 2020**

- Performed tutoring sessions with students for Data Structures in Java course
- Conducted weekly meetings with 10+ tutees and mentored them on exam preparations, lecture concepts and projects

**Secretary, Fresh CICS** **University of Massachusetts Amherst** **Sep 2019 – May 2020**

- Hosted events to enable students to interact with other students and faculty of Computer Science at UMass Amherst
- Organized workshops with Google Developer Student club on APIs, building startups, Git, Google Products