

Sahil Gupta

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📍 Amherst, MA

EDUCATION

BS, Computer Science: **University of Massachusetts Amherst, USA**

GPA: 3.85 / 4.0

- **Distinctions:** Dean's List, Chancellor's Award Scholarship
- **Organizations:** Machine Learning Research Club, UMass ACM
- **Coursework:** Algorithms for Data Science, Machine Learning, AI, Natural Language Processing, Search Engines, Databases, Software Engineering, Data Structures & Algorithms, Mobile Health Sensors **Aug 2019 – May 2023**

SKILLS

Languages: Java, Python, JavaScript, TypeScript, Kotlin, SQL, C++, Selenium

Technologies: AWS, Android Development, React, React Native, Firebase, Node.js, Express, MongoDB, Git, Linux

WORK EXPERIENCE

Frontend Intern **AudioShelf** **Oct 2022 – Present**

- Creating the next generation platform for streaming audio books using React Native
- Enhanced app performance by implementing caching in the app
- Created deep linking functionalities
- Added new features, raised issues, and resolved bugs

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

- Architected cloud services through AWS 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
- Conducted bootcamp sessions for 50 students on Android and React Native 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 in finding shortest path between 2 locations based on minimum total elevation **Oct 2022 – Dec 2022**
- **UTrack:** Engineered the backend functionality of a web application which enhances employees' productivity by providing task organization, performance reviews, paid time off applications and various other features. **Feb 2022 – May 2022**
- **MyState:** Developed a Machine Learning model which can predict 7 different classes of emotions using Convolutional Neural Networks with an accuracy of 54% using FER 2013 dataset. **Feb 2022 – May 2022**
- **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%. **Nov 2021**
- **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 **Sep 2021**

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's club on APIs, building startups, Git, Google Products