

# Rishab Paruchuri

US Citizen • +1 (470) 923-4886 • rparuchuri3@gatech.edu  
linkedin.com/in/rishab-paruchuri/ • github.com/RishabParuchuri

---

## Education

### Georgia Institute of Technology – Atlanta, GA

Expected graduation: **May 2026**

Candidate for Bachelor of Science in Computer Science - **GPA: 4.0/4.0**

Concentration in Systems Architecture & Information Internetworks

---

## Experience

### Data Science Intern, John Deere Intelligent Solutions Group – Urbandale, IA

**May 2024 – Jul 2024**

- Developed patent pending algorithms to identify farming 'subzones' via clustering & image segmentation using PySpark, to improve the AutoPath/AutoTrac autonomous guidance tools
- Spearheaded discussions with product managers to deliver customer validation sets to two major agricultural organizations (100,000+ acres), securing endorsement for deployment in John Deere Operations Center
- Created CNN architecture using satellite imagery and digital elevation model rasters to detect agricultural terraces

### Research Intern, Center for Innovation and Entrepreneurship at the International Institute of Information Technology – Hyderabad, India

**Jul 2022 – Aug 2022**

- Profiled Artificial Intelligence, Blockchain, and Robotics startups in Hyderabad and created a database of 140 startups
- Authored "AI Hyderabad Startup Ecosystem Analysis" white paper, providing insights on local AI startups, industries, and technologies, enabling incubator to identify 15+ startups invited to participate in programs

### Full-Stack Software Engineer Intern, WE Hub, Govt. of Telangana State, India

**Jun 2022 – Jul 2022**

- Crafted web pages using JavaScript, HTML, and CSS (Bootstrap) while integrating with a NodeJS backend, guaranteeing access to startup incubator resources for over 5,000 women entrepreneurs.
- Collaborated closely with the product team to design intuitive user interfaces for the "Udyamika" Platform, enhancing user experience and engagement, while ensuring accessibility to rural entrepreneurs across India

### UI/UX Design Intern, Alison

**Jun 2021 – Jul 2021**

- Supported the design (Figma) of web applications as part of a new UI update of the Alison career guide page used by millions of learners, and created Python scripts to automate image downloading process for website design

---

## Skills

**Programming:** Java, Python (Pandas, NumPy, Scikit-Learn, Matplotlib, SciPy, Flask), OpenCV, HTML, CSS, JavaScript, Django, SQL, C++, Bootstrap, C#, MATLAB, Firebase, npm, NodeJS, MongoDB, MySQL, Swift, Databricks, C, React, Spark, Tensorflow, Pytorch, Linux

**Concepts:** Object-oriented programming, data structures & algorithms, linear algebra, data science, discrete math, machine learning, computer vision, android development, iOS development, front-end development, back-end development, data modeling, AWS, cloud computing, full-stack web development, UIUX design, system design, databases, API design, statistics

---

## Research

### Research Scholar, Pioneer Academics with Susan Fox (Prof. CS, Macalester College)

**Feb 2022 – Jul 2022**

- Created a convolutional neural network, employing transfer learning with the VGG16 model, to attain superhuman accuracy in predicting geographical locations from images of ten cities
- Gained proficiency in image processing (OpenCV), machine learning algorithms, and deep learning techniques

---

## Projects (see Github or LinkedIn)

### Spotify Wrapped App

- Led a team of five using Agile processes (Scrum) as Product Owner in developing a mobile Android social media app using Java, allowing users to share their Spotify Wrapped summaries with others
- Integrated Spotify Web API to fetch user data, including most listened to songs and albums
- Utilized Firestore NoSQL database and Firebase Authentication for data storage and user authentication
- Implemented GitHub Workflows for CI/CD pipelines, ensuring automated testing and continuous integration

### Seizure Prediction Model

- Developed a predictive healthcare solution using a Python-based Long Short-Term Memory model and EEG data to forecast real-time warnings for epileptic patients with over 90% accuracy.

### MemoryScape

MemoryScape transforms photos and descriptions into captivating VR panoramas using generative AI

- Engineered an image processing pipeline by leveraging OpenCV for seamless image stitching, integrating DALL·E API for content infilling, and utilizing mathematical transformations to convert images to VR display format

---

## Awards and Honors

- Georgia Tech Faculty Honors (Fall 2023, Spring 2024)
- Chi Psi at Georgia Tech Bryan Scholarship Finalist