Rishab Seshadri

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Education

University of Georgia Athens, GA

B.S. in Computer Science, B.S. in Applied Mathematics; GPA: 3.94 *Aug. 2022 – May 2026*

- Awards/Honors: Presidential Scholar (x3), Dean's List (x5), HOPE Scholarship, CURO Scholarship
- Coursework: Data Structures, Systems Programming, Computer Architecture, Applied Linear Algebra, Robotics

Experience

Lead Software Engineer Apr. 2023 – Dec. 2024

Kavi Media *Alpharetta, GA*

- Managing a team of five developers creating front-end, database, and back-end platforms for Kavi Media, a South Indian music, podcast, and audio streaming company
- Collaborating with the executive team to make key business and technical decisions for the app and the company
- Developing server-based storage systems for listener and internal data using MariaDB, along with an Express.js-based API for the app to access this data

Software Engineering Intern May 2024 – Aug. 2024

NCR Voyix *Atlanta, GA*

- Integrated a machine-learning based sales forecasting model into an existing product's frontend
- Implemented data validation methods for data pre-processing prior to model training, alerting engineers when data drift occurs
- Worked with the AI/ML team to improve the accuracy of existing predictions using a variety of ML-focused routes

Projects

Kavi Database | *JavaScript, MariaDB, SQL, Unix, ExpressJS, Git* Apr. 2023 – Dec. 2024

- Developed a full user and app data storage system for a music and other audio streaming app
- Implemented a MariaDB-based SQL database and an accompanying API for retrieving user data
- Integrated API into an Ubuntu server with error handling and vitals checks

UVMapper | *Python, Blender, NumPy, OpenCV, Git* Jan. 2024 – May 2024

- Developed a pipeline consisting of Python scripts and system commands to map a hand to a 3D-textured mesh for use in virtual reality for patients with limb loss
- Researched the use of machine learning and other techniques for fitting a texture map autonomously
- Presented research with project and demonstration to the 2024 University of Georgia CURO symposium

Research

University of Georgia Virtual Experiences Lab | *Undergraduate Researcher* Aug. 2022 – Dec. 2024

- Worked with Dr. Kyle Johnsen and other researchers to build a VR platform that helps patients with limb loss and phantom limb pain visualize their missing limb, ease their pain, and assist in their therapy
- Developed a program to reduce latency in streaming-based neural network models for Automatic Speech Recognition to improve real-time conversational interaction

Leadership & Involvement

University of Georgia Robotics IEEE Team | *Co-captain, Programming Lead* Apr. 2022 – Present

- Managing a team of 12 students who are designing, building and programming a robot to compete in the IEEE Southeast Conference
- Implementing pathfinding and object detection using OpenCV in Python and a stereovision camera
- Writing software for the robot using a variety of Python scripts on an NVIDIA Jetson Nano

Technical Skills

Languages: Java, Python, JavaScript, C, SQL
Frameworks: Node.js, MariaDB, Express.js, JavaFX, ROS2
Developer Tools: Git, Google Cloud Platform, VS Code, Visual Studio, Jupyter Notebook, Kubeflow