

Satwik Mallajosyula

470-807-5482 • smallaj1@asu.edu • linkedin.com/in/smallaj • www.github.com/satwikug25

EDUCATION

B.S. Computer Science

Expected May 2025

Arizona State University, Tempe, AZ

GPA: 3.7/4.0

Relevant Coursework: Data Structures and Algorithms, Operating Systems, Compilers, Machine Learning, Software Engineering, Distributed Software Development, Database Management, Computer Vision

TECHNICAL SKILLS

Languages: C++, C#, JavaScript, TypeScript, Python, Java, C, HTML, CSS, SQL

Developer Tools: Git, Jira, VS Code, Eclipse, IntelliJ, Postman, GitHub

Technologies/Frameworks: React, Redux, Spring Boot, Django, Express.js, Node.js, Linux, Docker, MongoDB, AWS

PROFESSIONAL EXPERIENCE

Axio AI (Primer), Tempe, AZ: Software Engineering Intern

May 2024 - Present

- Designed and implemented reusable, scalable, and visually appealing front-end components in **React Native**, enhancing the user experience and reducing development time by **20%**.
- Established and maintained **GraphQL APIs**, ensuring efficient data retrieval and manipulation, which improved data fetching performance by **30%**.
- Increased app performance by **15%** through optimization of state management.
- Improved RAG model performance by **25%** with **knowledge graphs**, enhancing accuracy of **AI** responses.

Arizona State University, Tempe, AZ: Undergraduate Research Assistant

March 2024 - Present

- Incorporated **Whisper v3 large** model to analyze over **1000** ambulance to hospital emergency audio call recordings and transcripts.
- Developed **Python** scripts to integrate background noise into recordings, producing mixed audio files to simulate real-world scenarios and bolster transcription model robustness.

RELEVANT PROJECTS

Schedulio | Groq, Llama3, Next.js, Convex, Cartesia, Whisper

June 2024

- Led a team of **4** to develop an **AI phone call assistant** powered with **Groq, Llama, Whisper** and **Cartesia**, facilitating seamless calendar integration via **Google Auth** and Groq's tool calling capability.
- Implemented synchronization between customer bookings and owners' Google Calendars, resulting in a **40%** reduction in scheduling errors and improved operational efficiency.
- Architected and deployed a comprehensive dashboard using **Next.js** and **Convex**, enabling business owners to visualize and manage calendar appointments and analyze customer phone call summaries.

Readers Retrieve | React.js, Tailwind CSS, Javascript, Django, Postgresql

November 2023

- Engineered an e-commerce platform, bringing a unique and tailored online bookstore experience.
- Executed Image storage of over **1000** books in the catalog leveraging **Amazon Web Services S3** bucket.
- Launched a responsive and modern front-end using **React.js** and **Tailwind CSS** displaying **200+** books.
- Integrated **Postgresql** as the database ensuring swift retrieval and storage of product information, user data, and transaction details.

Filmpire | React.js, Javascript, CSS, HTML

October 2023

- Developed a website using **React.js** and **CSS** that displays a list of all movies and ratings.
- Extracted data on **1000+** movies from the OMDb API, analyzing metrics such as ratings, genres, and box office earnings.
- The website allows users to search for specific movies using a search bar, providing information about 1000+ movies to users.
- Built fast, responsive, and visually appealing website leveraging **React.js, Javascript, CSS**, and Restful API.

ACHIEVEMENTS

- Won **2nd Prize** in the 19th Annual Programming Competition hosted by WICS.
- NAMU Scholarship Recipient (**\$15,500** annually).