

# Giridhar Nair

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## EDUCATION

### University of Texas at Dallas

Richardson, TX

*Bachelor of Science in Computer Science*

*Expected Grad: May 2027*

**Relevant Coursework:** Discrete Math For Computing I, Computer Science I/II, Differential/Integral Calculus

### Udacity

Remote

*AI Programming with Python & Business Analytics Nanodegree*

*June 2023 - July 2023*

**Relevant Coursework:** Applied AI with Python, Neural Networks, SQL for Data Analysis, Data Visualization in Tableau, Linear Algebra & Calculus Essentials

## EXPERIENCE

### Data Analytics Research Intern

June, 2022 – July, 2022

*University of Texas at Dallas*

*Richardson, TX*

- Leveraged SQL Server Integration Services (SSIS), SQL Server Analysis Services (SSAS), SQL Server Reporting Services (SSRS), and Tableau to develop custom charts, facilitating data-centric business decision-making
- Introduced methods for Data Storage, Processing, Cleansing, and Warehousing in the development of a comprehensive solution showcasing the data lifecycle using leading BI solutions from Microsoft and Tableau
- Delved into Data Mining techniques like Decision Trees and Clusters to gain classification-based insights by querying from a Microsoft SQL Server database, with supplementary introduction session on SQL

## PROJECTS

### YourDailyRundown | *React.js, Python Flask, MongoDB, Chakra UI* | [Demo](#) | [Github](#) July, 2023 - August, 2023

- Developed a daily newsletter service that summarizes top stories sourced from the New York Times API across 20 interests using Google's PaLM 2 AI for article summarization and Twilio's SendGrid email API for distribution
- Established a robust Flask backend deployed on Microsoft Azure with API endpoints for user registration, validation, unsubscription, and preference management, handling user data storage through MongoDB
- Automated daily email distribution to subscribers through GitHub Actions and utilized 2 open-source integrated news web crawlers and information extractors to scrape articles from The New York Times
- Implemented server and client-side validation for user registration, preference updates, and unsubscription, ensuring data accuracy and efficient user management in the MongoDB backend

### TalkToText | *React.js, Python Flask, MongoDB, TailwindCSS, Docker* | [Demo](#) | [DevPost](#) September, 2023

- An AI audio transcription and summarization service, 2nd place winner at AIFA (AI For All) hackathon, providing precise transcriptions, sentiment analysis, action item summaries, and key points for accessibility
- Constructed a resilient Flask backend, responsive React frontend, and seamlessly integrated Whisper for transcription, Chat-GPT 3.5 for summarization/insights, and SendGrid for email distribution
- Deployed the backend on Microsoft Azure using Docker and the frontend on Vercel, both with continuous integration and continuous deployment (CI/CD) enabled through Github Actions for streamlined development

### CodeTogether | *React.js, Tailwind CSS, Node.js, Docker* | [Demo](#) | [Github](#) June, 2023 – July, 2023

- Real-time collaborative code editor supporting 74 programming languages, enabling multiple users to work simultaneously on the same code, ensuring seamless synchronization of edits through Y-WebRTC
- Integrated with JDoodle REST API for code compilation for each supported programming language via Axios, achieving an average latency of 1,508ms

### A\* Algorithm Visualizer | *Java* | [Demo](#) | [Github](#) April, 2023 – May, 2023

- Created a Java Swing A\* algorithm visualizer on a 15x11 grid with adjustable speed, interactive obstacles, controls, sound effects, and integrated dark mode via FlatLaf for user experience enhancement

## TECHNICAL SKILLS

**Languages:** Python, Java, Javascript, SQL, C++, HTML/CSS

**Frameworks and Libraries:** React.js, Flask, Node.js, Tailwind CSS, ChakraUI, TensorFlow, PyTorch, NumPy, Pandas, Matplotlib, Java Swing, Java.awt, Javax

**Developer Tools/Databases:** Git, Github, MongoDB, Amazon Web Services (AWS), Microsoft Azure, Google Cloud Platform (GCP), Firebase, Heroku, Github Actions, Vercel, PythonAnywhere, Tableau