

# Akhil Varma Tirumalaraju

Bridgeport, CT | [akhilvarma.tirumalaraju97@gmail.com](mailto:akhilvarma.tirumalaraju97@gmail.com) | +1 6467524137 | [LinkedIn](#) | **Willing to Relocate**

## PROFILE

Experienced Full Stack Developer with over 5 years of expertise in building scalable and high-quality web and mobile applications. Specializing in JavaScript frameworks like ReactJS and Next.js, with a strong foundation in software architecture, distributed systems, and DevOps practices. Proven track record in designing complex UI components with a focus on performance optimization and user experience.

## EDUCATION

**University of Bridgeport** | Bridgeport, CT

*Master of Science in Computer Science*

May 2024

**Jawaharlal Nehru Technological University** | Kakinada, AP, India

*Bachelor of Technology - Mechanical Engineering*

May 2018

## SKILLS

- React, Next.js, HTML, CSS, JavaScript (ES6+)
- C, C++, C#, Python, Java
- Node.js, RESTful API, SASS, SQL, JIRA
- Jenkins, Git, Docker, Webpack, Bitbucket
- **Certifications:** Cybersecurity (Cisco Network Academy), SAS (SAS Academy), AWS Academy Graduate (AWS Academy Cloud Foundations), Cisco's Routing & Switching (TestOut LabSim)

## EXPERIENCE

**University of Bridgeport** | Bridgeport, CT

*Graduate Assistantship – Center for Student Involvement*

January 2023 – May 2024

- Developed a **Social Media Analytics dashboard** to analyze student engagement metrics.
- Implemented data collection systems using **SAS** to analyze feedback and prepare solutions aimed at enhancing student involvement.
- Manage both **digital and print marketing** efforts for departmental events, utilizing Instagram and designing effective flyers for enhanced outreach and engagement.

*Student Employee - International Center*

May 2022 – December 2022

- Assisted international students with immigration inquiries, including Travel I20, CPT, OPT, and STEM OPT.
- Created online Orientation course for International Student orientation, including Immigration quiz which is attached to student Canvas platform.

**Wipro** | Bangalore, India

August 2018 – September 2021

*Front-end Developer*

**Project 1:** Wipro Hydraulics Website

- Led the frontend development of the "Wipro Hydraulics" website using **ReactJS** and **ES6+**, enhancing user experience with a responsive design.
- Implemented **media queries** and **flexible grid layouts** to achieve **responsive design**, ensuring seamless accessibility across various devices.
- Contributed to **HLD (High-Level Design)** by creating detailed design using mock screens and pseudo codes for specific components.
- Spearheaded the migration of legacy frontend code to **TypeScript**, improving code maintainability and reducing the likelihood of runtime errors by 30%.

**Project 2:** "myWipro" Mobile Application

- Developed user-friendly mobile applications for internal use and customer-facing purposes, leveraging front-end development expertise in **React Native**.
- Guided the team on integrating **telemetry** features and secure **SDL frameworks**, ensuring compliance with industry standards.
- Developed detailed **high-level design (HLD)** documents for new features, creating mock screens and functional logic to ensure consistent implementation across the team.
- Managed the codebase with **Git** and automated CI/CD processes using **Jenkins** and **Docker** for streamlined deployments.

## INTERNSHIPS

**Nxt Wave** | Hyderabad, India

January 2022 – April 2022

*Full Stack Development Trainee*

- Demonstrated expertise in developing high-quality mobile applications using React Native, JavaScript, and TypeScript.
- Completed 3 full stack projects, including a responsive design **e-commerce website** and task management app.
- Utilized **Node.js** and **Express.js** to create a RESTful API, facilitating seamless communication between frontend and backend systems.
- Successfully developed a scalable web app and performed analytics with NoSQL databases like **MongoDB**.
- Integrated **GraphQL** and backend APIs for data retrieval and storage.

## PROJECTS

### Sign Language Translator

- Developed a cross-platform application for real-time sign language recognition and translation.
- Utilized **Python**, **Tensorflow**, and **OpenCV** to build the sign language translation model.
- Designed and implemented the user interface using React Native for a seamless user experience.
- Integrated **RESTful APIs** for smooth transition and tested and deployed using CI/CD practice.
- Achieved a high accuracy of 96% in recognizing sign language gestures.

### Serverless Social Media Analytics

- Built a scalable Serverless web application using **AWS Lambda**, **DynamoDB**, and ReactJS, adhering to modern design principles and ensuring a **cohesive UI/UX**.
- Configure **AWS Auto Scaling** to handle increased workloads during peak usage times.
- User interface was created using AWS API gateway and deployed using **AWS Elastic Beanstalk**.

### Solar Heat Tech: A Study in Solar Air Heating Efficiency

- Designed, constructed, and tested a solar air heating system with five different collector configurations.
- AutoCAD and ANSYS were used to design and stimulate virtually before constructing.
- Used **Raspberry Pi** to collect temperature readings automatically and store in database at regular intervals for 15 days.
- Applied engineering principles to optimize the solar air heater system, resulting in a 48% increase in thermal efficiency compared to the initial design

## ACHIEVEMENTS / INVOLVEMENT

- |   |         |
|---|---------|
| • Shining Knight Award Recipient – Student Leadership Award | 2024    |
| • Public Relations Officer – Student Government Association | 2024    |
| • Executive Board Member – Indian Students Association      | 2023    |
| • “Graduate Assistant of the Year”-Student Leadership Award | 2023    |
| • Member of Delta Chapter of <b>Upsilon Pi Epsilon</b>      | 2023    |
| • Star Employee of Quarter – Q3 Performance Awards of Wipro | 2022    |
| • “Feather in the cap”- Annual awards in Wipro              | 2021    |
| • Treasurer - LEO Club                                      | 2017-18 |