Vishnu Gurrapu

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OBJECTIVE

Aspiring Web Developer with expertise in JavaScript, React, and Node.js. Passionate about building accessible and user-friendly healthcare applications. Eager to contribute to open-source projects like SMART on FHIR to improve patient-controlled data sharing.

EDUCATION

- **VNR Vignana Jyothi Institute of Engineering and Technology**   Hyderabad, India
  Bachelor's in Tech - Artificial Intelligence and Data Science; Current CGPA: 8.2   *August 2023 - May 2027*

  Courses completed: *Database Management Systems, Object-Oriented Programming with Java, Basic Python, Design and Analysis of Algorithms, Operating Systems*

- **Rajiv Gandhi University of Knowledge Technologies**   Basar, India
  Pre University Course; CGPA: 9   *November 2021 - June 2023*

- **Sri Vijay Sai High School**   Telangana, India
  Secondary Education; GPA: 10.0   *May 2021*

SKILLS SUMMARY

- **Programming Languages**:   Python, C++, SQL, JAVA, HTML, CSS, JavaScript, TypeScript
- **Frameworks & Libraries**:   React.js, Bootstrap, Tailwind CSS
- **Back-End & APIs**:   Node.js (Express.js), RESTful APIs, Authentication (JWT), OAuth 2.0 Django
- **Databases**:   MySQL, PostgreSQL, MongoDB
- **Version Control**:   Git, GitHub
- **Other Tools**:   Docker, Postman, VS Code
- **Soft Skills**:   Leadership, Public Speaking, Team Collaboration, Problem-Solving,, UI/UX Optimization

PROJECTS

- **Prescripto – Doctor's Appointment Booking Web App (MERN Stack)**: Developed a **secure and user-friendly doctor's appointment booking platform** using the **MERN stack**. Implemented **JWT-based authentication** for secure user access and **role-based access control** to differentiate between patients and doctors. Built a **scalable backend with Node.js and Express**, integrating **RESTful APIs** for seamless data flow. Designed a **responsive and accessible UI with Bootstrap**, ensuring an intuitive experience across devices. Focused on **improving usability, authentication security, and API performance**. Spent **40+ hours** designing, developing, and optimizing the application.

  Tech: React, Node.js, Express.js, MongoDB, Bootstrap, JWT

- **nxtTrendz – E-Commerce Website (Frontend Development)**: Developed the **frontend of an e-commerce platform** using **React.js**, implementing **JWT-based authentication**, **dynamic routing**, and **state management**. Designed a **product section with sorting options** and a detailed product page featuring **"Similar Products"**. Built a **dynamic cart system** using React Context for efficient state handling and seamless user experience. Created an **exclusive Prime section** offering special deals for Prime users. Focused on **UI/UX optimization, performance enhancements, and accessibility**. Spent **30+ hours** designing, developing, and refining the application.

  Tech: React.js, JWT, React Router, React Context, CSS

- **Blog Application (Full-Stack Development)**: Developed a **MERN stack blog application** with **secure authentication** using Clerk. Built a **scalable backend** with **Node.js, Express, and MongoDB**. Implemented **role-based access control** for Users, Authors, and Admins. Focused on **UI/UX improvements, data security, and performance optimization**. Spent **20+ hours** designing and refining the application.

  Tech: React.js, Node.js, Express.js, MongoDB, Clerk

GSoC & RESEARCH INTEREST

- : Passionate about open-source contributions, with prior experience in frontend development and UI/UX improvements.
- : Interested in enhancing healthcare technology through intuitive and accessible web applications.
- : Excited to work on **SMART on FHIR** to improve patient-controlled data sharing by optimizing frontend usability and API integrations.
- : Committed to developing scalable, user-friendly interfaces for real-world applications.

Courses and Certifications

- **React.js**: Completed — NxtWave
  - * Learned component-based UI development, state management with hooks, routing, and API integration.
  - * Focused on improving UI/UX, accessibility, and performance in modern web applications.
- **Node.js RESTful APIs**: Completed — NxtWave
  - * Explored backend development using Node.js, Express.js, and API security best practices.
  - * Gained experience in authentication mechanisms like JWT and OAuth 2.0.
- **Dynamic Web Development**: Completed — NxtWave
  - * Built interactive web applications using HTML, CSS, JavaScript, and backend integration.
  - * Implemented real-world projects focusing on usability and responsive design.
- **Responsive Web Design**: Completed — NxtWave
  - * Learned principles of modern web design, including Flexbox, Grid, and accessibility techniques.
  - * Developed mobile-friendly layouts to enhance user experience.
- **Database Fundamentals**: Completed — NxtWave
  - * Studied relational database concepts, SQL queries, and normalization techniques.
  - * Worked with MySQL and MongoDB to manage structured and unstructured data.
- **Python Essentials**: Completed — NxtWave
  - * Covered core Python programming concepts, including data structures and OOP.
  - * Developed small projects to apply problem-solving techniques.
- **Developer Foundations**: Completed — NxtWave
  - * Learned software development fundamentals, version control with Git, and best coding practices.
  - * Explored scalable application design and collaborative coding workflows.

Honors and Achievements

- Secured **Rank 3725** in TS-EAMCET 2023 among 2,00,000+ candidates.
- Achieved **Rank 1200** in TS-POLYCET 2021 among 90,000+ candidates.
- Recognized in **Top 100** out of 10,000+ students in YNAEST 2019 for excellence in experimental skill screening.

Volunteer Experience

- **Technical volunteer at ISTE, VNR vjiet**   Hyderabad, India
  Currently contributing to Technical and Event management as a member.   *January 2025- Present*