

VENKATA NIKHIL KARNATI

SOFTWARE ENGINEER

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<https://github.com/Karnatinikhil25>

Flagstaff, AZ, United States

SUMMARY

- **Software Engineer with 1 year of professional work experience** demonstrating proficiency in Java, Python, JavaScript, and C++. Skilled in effective communication, collaboration, and introducing generative ideas to the team.
- **Active participant in an IoT (Internet of Things) hackathon**, focusing on creating connected objects and understanding IoT integration.
- **Led the organization and conduct of IEEE awareness programs for school students**, educating them on the benefits and opportunities in the field.
- Proficient in various **Spring Modules**, including **Spring MVC**, **Spring Core Container**, **Spring Web**, and **Spring AOP (Aspect-Oriented Programming)**.
- Strong foundation in **Object-Oriented Programming**, and proficiency in **Greedy Algorithms** such as Knapsack, Dijkstra's, 0/1 Knapsack, and N-Queen.
- Experienced in developing **dynamic web applications and Single Page Applications (SPA) using React**.
- Skilled in using Mongo DB Atlas through Compass for basic CRUD (Create, Read, Update, Delete) operations.
- Developed **web applications focused on transactions using Flask in Python**.
- Full-stack Web Developer proficient in coding, developing dynamic web pages, server management, troubleshooting, understanding application needs, team collaboration, and identifying customer requirements.
- Utilized **Tess4J for interfacing with Tesseract APIs** to extract text from images using Java.
- Led the overhaul of **website front-end development, supporting back-end programming**, which resulted in a 13% improvement in load times and a 19% increase in site stickiness, contributing to a significant 125% increase in web traffic.

PROFESSIONAL EXPERIENCE

Cognizant

Programmer Analyst

Hyderabad, India

May 2021 - July 2022

- **Led front-end overhaul and assisted back-end programming**, enhancing site speed by 13% and user engagement by 19%.
- **Boosted web traffic by 125%** through improved navigation, dynamic media, virtual tours, and social media integration.
- Developed a **Python-based, Arduino-driven self-sanitizer protocol for COVID-19**, incorporating ultrasonic sensors.
- Created an engaging **Java-based snake game using Eclipse and Java Graphics Library** for interactive play.
- Designed a **university website with HTML, CSS, and JavaScript**, focusing on user-friendly interface and accessibility.
- Developed a **dynamic gaming website using HTML, CSS, and JavaScript**, offering an immersive user experience.
- Implemented a **Blockchain transaction system using HTML, CSS, JavaScript, and Python Flask** for secure backend operations.

Cisco

Internship

Hyderabad, India

January 2021 - March 2021

- Assisted in the **design, testing**, and deployment of networking solutions for clients.
- Participated in the maintenance and troubleshooting of network systems and provided technical support to clients.
- Acquired a thorough understanding of **networking protocols**, technologies, and **security measures**.

EDUCATION

Northern Arizona University ([Transcripts](#))

Master of Science in Computer Science

Relevant Courses: R Programming for Modern Regression, Data and Text Mining, Web Technology, Principles of languages Intro in Python, Network Security, Cryptography and RapidMiner

Flagstaff, AZ

August 2022 - December 2023

Vignan's University ([Transcripts](#))

Bachelor of Technology in Computer Science

Relevant Courses: Python, C++, Java, R Programming, Big Data, Blockchain.

Guntur, India

July 2018 - June 2022

SKILLS

Tools & Technologies: Java, Python, JavaScript, C++, C, Mat Lab, R Programming languages, React.js, Node.js, CSS, HTML, Data Structures and Algorithms, NoSQL.

Soft Skills: Problem Solving, Excellent Communication, Teamwork, Adaptability, Emotional Intelligence.

PROJECTS

- Engineered a Python-based (Road) Lane-Detection-System using OpenCV Deep learning. ([View Code](#))
- Designed and implemented a Movie Ticket Booking System website using HTML, CSS, and JavaScript, focusing on responsive design and user-friendly navigation. ([View Code](#))
- Designed and implemented a university website using HTML, CSS, and JavaScript, focusing on responsive design and user-friendly navigation. ([View Code](#))
- Created a dynamic gaming website using HTML, CSS, and JavaScript, featuring interactive content, and optimized for high user engagement.
- Constructed a blockchain-based transaction system using HTML, CSS, JavaScript for frontend development, and Python with Flask for backend processing.

VOLUNTEERING

- Conducted Python workshops for over 30 students at Vignan University, fostering programming skills and practical application knowledge.
- Hosted an interactive online seminar using Zoom to educate students on web page functionalities and digital literacy.

AWARDS

- Awarded the NAU International Excellence Award, recognizing exceptional academic achievements among international students.
- Crowned the season's champion in the school's running competition, demonstrating outstanding athletic prowess.
- Secured the runner-up position in the university's annual running competition, showcasing consistent athletic performance and dedication.