

Varnit Rawat

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EDUCATION

University of Central Florida

Orlando, FL

Bachelor of Science in Information Technology

Jan 2022 – Dec 2026

- Coursework: Data Structures & Algorithms, Systems Administration, Databases, Mobile Development.

EXPERIENCE

Teaching Assistant

Aug 2025 – Present

University of Central Florida

Orlando, FL

- Assist **140+** students in lab sessions by debugging code and explaining key DSA topics such as arrays, trees, and sorting.
- Created eight unique corner-case test cases for DSA topics, enhancing code quality and helping students save **20 minutes** of debugging weekly.
- Collaborate with instructors to prepare and organize weekly lab materials and programming exercises.
- Improved grading efficiency by **50%**. using automated Bash scripts to grade programming assignments, ensuring accuracy and consistency.

Workshop Instructor

Aug 2025 – Present

Knight Hacks

Orlando, FL

- Managed workshops for **30–40** students on coding strategies for technical interviews.
- Teach students how to analyze problems, handle edge cases, and present both brute-force and optimized solutions.
- Guide students on effective communication and coding approaches during interviews, resulting in **30%** higher mock interview success rates.
- Develop and curate practice problems inspired by real LeetCode and FAANG-style interview questions.

PROJECTS

Data Structures & Algorithms Learning Roadmap | v4rnit.github.io/DSA2/

Jan 2025 – Present

- Developed a web application featuring interactive modals that increased user engagement by **30%**.
- Built responsive layouts using React.js and Tailwind CSS, improving mobile engagement by **25%** and boosting conversions.
- Integrated a YouTube channel for coding walkthroughs, increasing student engagement and platform interactivity by **35%**.
- Implemented an AI-powered chatbot for real-time user assistance and enhanced platform support.

Ctrl + Varnit | youtube.com/@Varnit-codes

Aug 2024 – Present

- Create and upload LeetCode problem walkthroughs and course-related tutorials to support **140+** students in the DSA course.
- Produce educational videos that explain complex algorithms and coding concepts in an easy-to-understand way.
- Produced content that improved student engagement and learning outcomes in algorithm and coding concepts by **40%**.

Personal Portfolio | v4rnit.github.io/Portfolio/

Sep 2023 – Present

- Designed and developed a responsive personal portfolio website showcasing projects, skills, and achievements.
- Implemented a smooth typewriter animation and page transition effects using vanilla JavaScript for better UX.
- Utilized grid layouts, reusable components, and custom styling for a modern, consistent design.
- Hosted online to serve as an interactive showcase of my technical and creative work.

TECHNICAL SKILLS

- **Languages:** Java, Python, C, SQL, HTML/CSS, JavaScript
- **Frameworks:** React, Node.js, Flask, JQuery, WordPress
- **Developer Tools:** Git, Google Cloud Platform, VS Code, IntelliJ, Eclipse, Vim, NeoVim, Blender
- **Libraries:** pandas, NumPy, React, Three.js