Bed Pandey
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EDUCATION

•**University of Central Florida** *August 2022 - May 2026 (Expected)*
GPA: 3.9 Orlando, FL
Bachelor of Science in Computer Science

PROJECTS

•**Overcastly** React, TypeScript, Node.js, Express, Tailwind, MongoDB *October 2024 - December 2024*

- MERN-based social media app focused on weather and storm tracking.
- Main features include a map view displaying post locations and radar layers from NOAA, a social page displaying posts in a card view, and a dashboard for quick information on recent posts and weather information for your location.
- Created almost the entire web app for Overcastly, as well as helping with some APIs created in Express, and managed Digital Ocean hosting.

•**prgrid** Node.js, JavaScript, jQuery, Jade/Pug, and CSS *February 2023 - Current*

- Designed an interactive web front-end to play musical notes on a piano roll grid, allowing the user to change waveform to create unique retro sounds and patterns.
- Utilized Node.js as a back-end and Pug to create cleaner HTML code.
- Used CSS to create a clean and simple user interface that anyone can recognize and use.
- Created scripts that uses JavaScript's Web Audio API to generate sounds with synthesizers.

•**Graphical-GOES** Python, Matplotlib, JavaScript, jQuery, HTML, and CSS *December 2022 - Current*

- Developed interactive web front-end to process raw satellite data into high-quality images.
- Designed front-end interface using CSS, and developed user-interactivity with JavaScript and jQuery.
- Created sleek menu and toolbar system to allow for smooth scrubbing and video playback of satellite images and changing satellite options, such as location and band.
- Contributed to development of back-end scripts written in Python, using Matplotlib to process raw data files from NOAA AWS servers.

WORK EXPERIENCE

•**Center for Distributed Learning** *May 2024 - Current*
Web Developer University of Central Florida, Orlando, FL
- Contributing to UDOIT (an open-source, all-in-one accessibility scanner for Canvas developed and used by UCF for all courses) to use a newer accessibility checking framework for compliance with WCAG 2.1.
- Feasibility testing different frameworks to see if they meet our needs at UCF, such as creating an Electron application that uses OAuth and Instructure's Canvas API and testing several Node modules such as IBM's Equal Access and comparing results against our current accessibility scanner.
- Worked with faculty and professors on course development tickets using ServiceNow.
- Updating various WordPress-based sites for UCF to be more accessible and WCAG 2.1 compliant.

CLUBS AND EXPERIENCE

•**Wiki Knights** *Jan 2023-Current*
President, Contributor Orlando, FL
- Wrote articles for the Introduction to C Programming textbook created by members of Wiki Knights.
- Created shell script to find all recently modified *.md files and determine if their *.html counterpart has also been rebuilt. Used as part of broader shift to utilize Docker for the build script for the Wiki Knights Computer Science Materials.
- Hosted a live session explaining how set up a development environment so that students can easily create and modify articles for the Wiki Knights library.
- Created and edited social media videos in order to create engaging content about open educational resources.

TECHNICAL SKILLS AND INTERESTS

Languages: C, C#, Java, Python, PHP, SQL, JavaScript, HTML, Pug, CSS, Bash/Shell scripting
Tools: Linux, Git, Docker, WordPress, JetBrains Suite, Visual Studio, ServiceNow
Frameworks: React, jQuery, Node.js, JavaFX
Relevant Coursework: Data Structures and Algorithms I/II, Intro to C Programming, Object-Oriented Programming, Calculus I/II, Linear Algebra, Discrete Math