

DINESH VARDHAN BONTHU

Dayton, OH | dvardhan89@gmail.com | [Portfolio](#) | 937-503-0370 | [LinkedIn](#) | [GitHub](#)

Education

Wright State University

Masters in computer science, GPA: 3.9

Expected Dec 2024

Dayton, OH

- **Coursework:** High Performance Computing, Cloud Computing, Machine Learning, Host Computer Security, Algorithm Design Analysis, Multi Modal Data Analysis, Distributed Computing.

Indian Institute of Information Technology Trichy

Bachelors in Electronics and Communication Engineering, GPA: 3.2

Aug 2016 – Aug 2020

Trichy, India

Professional Experience

Software Engineer Intern, Tata Consultancy Services

May 2022 – Jan 2023

- Migrated 6 functionalities from Bash to Python, Documented the changes made during the migration process.
- Developed scripts on automation for routine system maintenance, log analysis and basic system monitoring essentially saving time by 70%.
- Collaborated with three cross-functional teams to make contributions by developing efficient solutions.
- Completed 4 courses on SQL, Python, CI/CD practices and JavaScript for software development on platforms offered by company.

Technical Skills

Programming Languages: C++/C, Java, Python, Bash, JavaScript, C#, SQL

Web Technologies: HTML, CSS, JavaScript, Node JS, jQuery, JSON, Restful Webservices, MERN stack.

Libraries/ Frameworks: Django, React, Redux.

Tools / Platforms: WSL Ubuntu, Git, .NET, Apache server, REST API, MPI

Others: MySQL, AWS, API, Singularity Containers, OOPS

Projects

Backend parallel processing | [Link](#) | Back-End Developer

- Created and deployed a Django project by hosting on an AWS EC2 instance, demonstrating proficiency in both web development and cloud technologies.
- Implemented an optimized solution with minimal computation time processing over 40M iterations.
- Integrated AJAX and JSON to streamline form submission, resulting in 100% data transfer accuracy.
- Displayed real time output data dynamically on the website processing 20 million iterations parallelly across two servers.

Linux Terminal Simulation | [Link](#) | Application Developer

- Created a simulated CLI using C++ from scratch, with the ability to create folders, files with content, deletion.
- Applied object-oriented programming principles, made code readable and debugged code to attain 100% score.
- Conducted thorough testing to ensure the program's reliability by checking around edge cases.

E-commerce Website | [Link](#) | Front-End Developer

- Developed front end clone of E-commerce website Amazon, used React and Redux for state management.
- Integrated a checkout page and order history functionality, leveraging a NoSQL database for storage.
- Streamlined secure payment processing into the application using the Stripe API.
- Implemented user authentication to ensure secure logins, deploying the application worldwide using Firebase.
- Access the page using the above Firebase URL. Note: This application is still under development with over 2,000 lines of code written and 50 hours invested in development.

Leadership Experience

Distributed Computing:

- Managed a team of 4 members for the final project, assigned individual tasks, scheduled weekly meetings.
- Delivered in-class presentation, explaining technical aspects of novel idea, and submitted project report.