

# Yeshwanth Mandava

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## EDUCATION

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### University of Central Florida

August 2020 - December 2024

Bachelor of Science - **Computer Science**

Minor - **Finance**

GPA: **3.81**

**Coursework:** Data Structures, Algorithms, System Software, Discrete Mathematics, Calculus with physics, Probability and Statistics, Economics and finance, Project Management, Financial Markets

## SKILLS & TECHNICAL TOOLS

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**Languages:** Java, Python, C, C#, C++

**Front End:** ReactJS, JavaScript, HTML/CSS, Razor

**Back End:** NodeJS, ExpressJS, ASP.NET, REST APIs

**Database:** MongoDB, SQL

**Testing:** Fortify, JUnit 5, SonarQube, Jasmine,

**Developer Tools:** AWS, Git, Jira, Gitlab, Github

## EXPERIENCE

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### Deloitte | Software Engineering Intern

June 2023 - Present

- Developed a comprehensive API monitoring tool using the .NET stack and real-time data from an SQL DBMS. Designed scalable architecture to collect and display performance metrics from multiple web applications, ensuring high availability and efficient processing. Utilized SQL queries and data visualization for proactive identification and resolution of bottlenecks, latency issues, and system failures.
- Designed an MVC architectural pattern to structure the application's components, enabling modularity, code reusability, and separation of concerns. Leveraged frameworks like ASP.NET and Razor pages to streamline routing, model-view binding, and server-side rendering.
- Utilized Fortify to identify and mitigate codebase vulnerabilities, conducting thorough scans and implementing security patches, input validation, and authentication mechanisms. Utilized SonarQube for code quality management, performing static code analysis and ensuring adherence to standards, maintainability, and readability.
- Actively maintained a Gitlab repository, and leveraged Git features such as creating branches, commit changes, pull requests and commands like push, merge, and fetch resulting in significant improvements in version control efficiency and collaboration within the development team.

### Lockheed Martin | Quality Engineering Intern

August 2022 - June 2023

- Developed and deployed a reporting tool using Tableau and Visual Basic to interface with an SAP data source, maintaining a real-time defect log for Apache helicopter parts across 5 US manufacturing centers over 6 years. This tool enables the 60+ Apache Engineering team members to track and actively reduce defects per center daily.
- Implemented Robotic Process Automation (RPA) for 30% daily task automation, streamlining operations and enabling focus on high-impact engineering initiatives
- Utilized Tableau for trend analysis visualizations from multiple data sources, reducing defect parts data error margin to 8% and driving down manufacturing plant defects by 10% per month

### IBM | Software Developer Accelerate

May 2022 - August 2022

- Developed and designed a robust application using ReactJS, focusing on creating efficient and interactive UI components with a strong emphasis on reusability. Implemented UX design methods and conducted functional unit testing to enhance the overall user experience.
- Containerized a microservice using Docker and successfully deployed the frontend component of the todo app on an IBM cloud cluster utilizing Kubernetes. This experience provided valuable insights into the functionality of REST APIs and the essential requests involved in communicating with other RESTful web services
- Deployed a backend component of the todo app using ExpressJS, facilitating seamless communication with the frontend component and effectively storing input data in a database. Leveraged Axios to make secure HTTPS requests to REST endpoints from the backend, ensuring smooth integration with external services.

## PROJECTS

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### Body Posture Tracker

- Engineered an AI computer-vision based body posture tracking application in Python, leveraging a Mediapipe holistic model built with CNNs and RNNs for real-time human pose estimation.
- Integrated the OpenCV library to establish a camera interface and set up a Tensorflow Object Detection training pipeline to accurately detect 2D body joints, movement and other distinct landmarks on the user's body.
- Implemented keypoint extraction algorithms to detect incorrect body positions and provide immediate visual/auditory feedback to the user for corrective awareness.

### J.P. Morgan Software Engineering Experience

- Engaged in the development of a stock price data analysis system using Python. Utilized JPMorgan's Open Source Software, Perspective, to provide real-time actionable metrics to a trader's dashboard with the help of React and Typescript.