

# MILTON JOSEPH

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## EDUCATION

University of Central FloridaOrlando, FL

Bachelor of Science (BS), Computer Science - GPA: 3.662024

Coursework: Data Structures and Algorithms, Software Engineering, Operating Systems, Database Systems, Mobile Application Development, Computer Networks, Artificial Intelligence, Web Development, Object-Oriented Programming, Machine Learning

## INTERNSHIPS

UKG (HR, Payroll, & Workforce Management Solutions Company)Weston, FL

Software Engineer (Intern) – [ACA Manager](#) TeamMay 2023 – August 2023

- Migrated legacy **ASP.Net** pages to a modern Angular framework, enhancing UI/UX responsiveness and user interaction by delivering a more intuitive and polished interface that aligned with current design trends.
- Developed new **API endpoints** using **C#** to ensure accurate data transmission between backend systems and the Angular frontend, improving data handling and retrieval processes within the application.
- Improved system observability by implementing performance tracking and error logging features, reducing time required for identification and resolution of backend issues by **30%**, resulting in a more positive experience for end-users.
- Created and optimized stored procedures in **SQL Server**, ensuring precise database querying and reducing the complexity of data retrieval, which contributed to system security, reliability, and scalability.
- Utilized **Git** and **Gitflow** branching patterns for code management, managing version control and ensuring smooth merges in **BitBucket**, which allowed for frictionless collaboration and reduced integration conflicts within the development team.
- Automated unit and integration tests using **NUnit** to ensure the strength of both frontend and backend code, increasing code quality by identifying bugs earlier in the development cycle.
- Streamlined **CI/CD pipelines** using **TeamCity** to automate testing and deployments across microservices, enabling faster delivery of new features and ensuring continuous integration in a deadline-driven development environment.

Siemens Energy | 2023 – 2024Orlando, FL

Software Engineer – Advanced Analytical Identification of Turbine ComponentsAugust 2023 – April 2024

- Gathered requirements from stakeholders and identified an emerging issue in turbine component identification, creating a custom solution that improved the accuracy of component tracking and maintenance processes by **35%**.
- Designed and developed an **iOS** mobile application using **Swift**, integrating **Apple Vision Kit** to scan turbine component serial numbers, which streamlined the data entry process and enhanced the efficiency of field operations.
- Implemented a **YOLOv8** model using a custom-labeled dataset for character recognition of serial numbers, resulting in a robust system that automated the identification process, reducing manual errors and improving data accuracy.

## PROJECTS

Software Engineer – the Fast SupperJanuary 2023 – May 2023

- Developed a **REACT/REACT Native** project for a dynamic website and responsive mobile app that provided restaurant suggestions based on user preferences, resulting in an engaging and personalized user experience across multiple platforms.
- Leveraged the **MERN stack (MongoDB, Express.js, React, Node.js)** to create a scalable solution, ensuring peak performance and adaptability across desktop, **Apple**, and **Android** devices.
- Deployed the application using **Heroku** for continuous accessibility and easy maintenance, ensuring the app remained operational and responsive to user input which improved user satisfaction.

## TECHNICAL SKILLS

Programming Languages:	Java, JavaScript, TypeScript, C, C++, C#, Python
Frontend Technologies:	React, Angular, HTML, CSS, Swift, React Native
Backend Technologies:	ASP.Net, Firebase API, Node.js, Flask, Express.js
Database Management:	SQL Server, MariaDB, MongoDB, MySQL, Microsoft Azure
Version Control & Collaboration:	Git, Bitbucket, GitHub
Testing:	NUnit, Automated Testing, Unit Testing, Integration Testing
DevOps & CI/CD:	TeamCity, Continuous Integration, Pipelines
Software Development Methodologies:	Agile Development, Gitflow Branching
Mobile Development:	iOS Development, Apple Vision Kit, React Native
Web Development:	MERN Stack, Full-Stack Development