

## AKHIL MADDUKURI

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### EDUCATION

#### Master of Science, Computer Science

University of Florida - Gainesville, Florida

May 2023

GPA: 3.86/4.00

Coursework: Analysis of Algorithms, Advanced Data Structures, Software Engineering, Distributed Operating Systems, Internet Data Streaming

#### Bachelor of Technology, Computer Science

Andhra University - Visakhapatnam, India

June 2021

GPA: 3.74/4.00

### PROFESSIONAL SUMMARY

Computer Science graduate with experience in **full-stack** software development. Highly involved in Software Development Life Cycle (SDLC) of large-scale systems. Developed software solutions using **Agile** methodologies and demonstrated expertise in **test-driven development**. Proficient in **Java, Spring, .NET, ASP.NET, Angular, React, JavaScript**, and **design patterns** such as MVC, MVVM, DAO, Singleton, and Factory model. Familiar with REST APIs, version control systems, and architectures like client-server, peer-to-peer, serverless, and microservices.

### SKILLS

- **Programming Languages:** C, C++, Java, C#, VB.NET, Go, Python
- **Web Technologies/Scripting:** J2EE, Spring, .NET, ASP.NET, JUnit, NUnit, PowerShell, LINQ, HTML, CSS, Bootstrap, , Razor, JavaScript, Angular, React, jQuery, JSON, XML, REST, SOAP
- **Database Engines:** MySQL, NoSQL, MSSQL Server (T-SQL), Oracle (PL/SQL), MongoDB, SQLite
- **Cloud and other tools:** AWS, Azure, Jenkins, Docker, Swagger, Entity framework, ADO.NET, MVC, Redis, Visual Studio, Git, Bitbucket, Tomcat, WebSphere, Eclipse, Kafka, Windows, Linux

### PROFESSIONAL EXPERIENCE

Idaho Transportation Department – Boise, Idaho

August 2023 – Present

**Full-Stack Developer Consultant** | ASP.NET Core, MVC, MS Dynamics CRM SDK, Razor, HTML, jQuery, Bootstrap, Azure DevOps

- Created highly interactive and responsive user interface (UI) pages using HTML, **jQuery, Razor Syntax**, CSS, and Bootstrap
- Configured **Single Sign-On** using Azure Active Directory, ensuring a seamless and secure authentication process across multiple applications
- Developed scalable APIs tailored for transaction-heavy processes using Microsoft **Dynamics CRM SDK**, handling large datasets and concurrent request across Idaho, reducing 40% data processing time and ensuring real-time synchronization state-wide
- Streamlined **CI/CD** pipelines using **Azure DevOps** and implemented automated testing and deployment processes with **YAML** scripts, resulting in a significant reduction of release cycles by 50%

AutoReview.AI (formerly Virtual Review Assist) - Gainesville, Florida

April 2022 – February 2023

**Graduate Software Developer** | C#, .NET, Windows OS, Revit API, Azure DevOps, Agile

- Automated the validation of building plans using **Revit API** support for **.NET**, reducing the timeframe from many weeks to 24 hours, designed various abstract classes, interfaces, classes to construct the business logic using **C#** with **OOPS** implementation
- Devised a framework that can inspect a multi-story structure in less than 3 minutes, handled logging and error handling using **Log4Net**
- Optimized the report generation process using **Open XML SDK for .NET**, automating the creation of dynamic and customizable reports with efficient **data binding**, achieved a 30%-time savings by eliminating manual report generation tasks
- Collaborated in an **Agile** environment showcasing strong scrum ideologies with a focus on iterative development and continuous improvement
- Programmed server-side python RESTful APIs and implemented **View-level Caching** using **Redis** resulting in 45% faster data processing time

University of Florida - Gainesville, Florida

January 2022 - April 2022

**Graduate Teaching Assistant** | Process & Threads, Scheduling, Memory management, Virtual Machines, Linux kernel

- Assisted teaching staff in preparing the classroom and lesson plan for the Operating Systems class of 350 students
- Demonstrated an increase of 5.5% in class average by conducting regular office hours and helping students with coursework

Accolite Digital - Hyderabad, India

February 2021 - June 2021

**Software Engineer Intern** | Java, J2EE, React.js, Spring Boot, Object-Oriented Design, Microservices, OAuth, AWS

- Built and customized 75+ REST API endpoints using Java **Spring MVC** framework and implemented **pagination and filtering** functionality
- Implemented **OAuth 2.0** authentication and authorization mechanisms using **Spring Security** framework, securing access to API endpoints
- Created and executed over 100 **JUnit** test cases, encompassing both positive and negative scenarios, achieving an average **test coverage** of 95%
- Developed dynamic and responsive user interfaces using **React.js**, enhancing the overall user experience for the web application
- Performed a POC for evaluation of feasibility of **Java Microservices** technologies by building two inter-communicating microservices using **JHipster** and **Microprofile**, resulting in a 20% faster application startup time

### PROJECTS

**Community Engagement Platform** | Angular, Golang, Gin framework, Gorm, SQLite: Designed and built a scalable community engagement website that reduces the response times for residents' maintenance requests and queries from many days to as low as 12 hours

**Netflix Data Analysis** | C++, Graph Algorithms: Created graph structures from a dataset of 100 million ratings for 17,000 movie titles from 480K anonymous Netflix users, established user connections based on 5 different factors to produce accurate movie recommendations

**P2P File sharing system** | Java, Multi-threading, Linux: Implemented a **Peer-to-Peer file transfer system** by establishing a **TCP** connection between 2 peers and utilizing **multi-threading** to accommodate concurrent file transfers

**Result Analysis System** | Python, Tableau, Django: Built a data analysis software for automating student results analysis from PDF and generation of statistical reports saving 40 hours of faculty time