

# Kotesh Ravula

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## PROFESSIONAL SUMMARY

Results-oriented Software Engineer (.NET / C# / Cloud) with 3+ years of experience designing, developing, and deploying secure, high-performance enterprise applications. Skilled in C#, ASP.NET Core, Python, SQL Server, and AWS cloud solutions, with proven ability to deliver reliable software aligned with Agile and CI/CD principles. Experienced in system design, data integration, debugging, and cross-team collaboration to achieve business-driven outcomes. Passionate about building scalable, resilient systems that align with modern architecture and security best practices.

## EDUCATION

### Master of Science in Computer and Information Sciences

University of South Dakota, Vermillion, SD | Jan 2023 – May 2024

Relevant Coursework: Data Structures & Algorithms; AI in Medical Imaging Informatics; Reinforcement learning; Data Analysis & Decision Making; AI & IoT; Info. Storage & Retrieval; Operating Systems.

### Bachelor of Technology in Civil Engineering

Jawaharlal Nehru Technological University, India | Jul 2017 – May 2021

Relevant Coursework: Object-Oriented Programming (C++), Operating Systems, Java

## TECHNICAL SKILLS

**Languages:** C#, .NET (Core & MVC), Python, Java, SQL, JavaScript

**Frameworks & Tools:** ASP.NET Core, Entity Framework, Flask, React.js, REST APIs, Git, Jenkins

**Cloud & DevOps:** AWS (EC2, S3, Lambda, RDS), Azure DevOps (CI/CD), Docker, Kubernetes

**Databases:** MySQL, PostgreSQL, MongoDB

**Concepts:** Agile (Scrum), Microservices Architecture, Application Resiliency & Security

## WORK EXPERIENCE

### LimeLightLogic INC – Austin, TX

Software Engineer | AUG 2023 – Present

- Designed and implemented **.NET Core APIs** for enterprise reporting and analytics platforms, improving system throughput by 25%.
- Developed **C# microservices** with SQL Server back-end, ensuring transaction integrity and scalability.
- Integrated **AWS services (EC2, S3, Lambda)** to automate data ingestion and storage pipelines.
- Built CI/CD pipelines in **Azure DevOps** with automated testing, reducing release time by 40%.
- Troubleshooted production issues, performed root-cause analysis, and optimized code performance for reliability and resiliency.
- Partnered with cross-functional teams to align solutions with business and compliance objectives.

### Cognizant Technology Solutions – Hyderabad, India

Junior Software Engineer | Aug 2021 – Mar 2023

- Developed Java and Python-based backend modules for enterprise applications following SDLC best practices.
- Supported API integration and data exchange between internal systems using Spring Boot and Flask.
- Wrote SQL queries and stored procedures for large-scale data validation and migration projects.
- Participated in Agile sprints, code reviews, and testing cycles to ensure secure and high-quality releases.
- Enhanced system monitoring and troubleshooting tools, reducing production defects by 15%.

## ACADEMIC PROJECTS

### Cricket Score Prediction Using Machine Learning | Python, Scikit-Learn, Pandas | Jan 2024 – May 2024

- Developed **end-to-end predictive system** using Python (Scikit-Learn, Pandas) to forecast cricket scores based on live match data.
- Engineered **RESTful Flask API** to serve ML model predictions in real time and integrated it with a React.js frontend.
- Implemented **data preprocessing pipelines** for cleaning and feature engineering, improving model accuracy by 12%.

### IoT Anomaly Detection & Attack Prevention | Python, TensorFlow, Scikit-Learn | Sept 2023 – Dec 2023

- Built a **real-time anomaly detection system** using TensorFlow and Python to identify network attacks in IoT devices.
- Trained and tuned **deep learning classifiers** (CNN, LSTM) achieving 94% accuracy on test datasets.
- Integrated system with **MQTT protocol** for live communication between IoT sensors and the Flask-based backend API.