

## SRINIVAS A

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### EDUCATION

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**BIRLA INSTITUTE OF TECHNOLOGY**  
*M.Tech (WILP - Software Engineering)*

Pilani, Rajasthan  
2025-2023

**NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY**  
*B.E (CSE)- 8.3 CGPA*

Yelahanka, Bangalore  
2022-2018

**CHETANA PU COLLEGE (DEEKSHA INTEGRATED)**  
*PU (PCMC)- 85.5%*

Yelahanka, Bangalore  
2018-2016

**POORNA PRAJNA HIGH SCHOOL**  
*SSLC- 96.96%*

Yelahanka, Bangalore  
2016-2015

### WORK EXPERIENCE

**Special Application Engineer | Yokogawa India Limited**

2025 – Present

#### **Project: DCS Reports – Distributed Control Systems Monitoring & Report Generation**

- Developed and implemented a scalable search framework for enterprise-level instrumentation data within Distributed Control Systems (DCS)
- Enhanced the existing search mechanism by introducing flexible keyword support, message number filtering, and efficient pagination
- Achieved a 40% improvement in search query performance across Alarm and Event datasets
- Introduced a smart caching layer for frequently accessed queries, significantly reducing response times and load on the system
- Delivered a more responsive and intuitive Windows-based application for control room operators and system analysts
- Tech Stack: ASP.NET, C#, MSSQL, Windows Application Forms.

**Software Engineer | Anmeda Systems**

2023 – 2025

#### **Project: RetroN21 – Operational Compliance and Production Tracking Solution**

- Developed and set up RetroN21, a system made to improve old machines in the pharmaceutical manufacturing industry so they follow FDA CFR Part 11 and Annex 11 rules for handling electronic data and staying compliant.
- Addressed the industry-wide challenge of tracking production processes, providing a centralized solution for monitoring, controlling, and ensuring compliance across operations.
- I successfully integrated key features, including complete audit trail reports, maintenance personnel tracking, and real-time monitoring of production processes.
- We delivered a comprehensive Pharma Suite that is compatible with any system, enabling seamless production process tracking and compliance for 90% of pharmaceutical companies still struggling with legacy systems.
- Tech Stack: ASP.NET, Entity Framework, C#, MSSQL, JS, HTML, CSS, AWS.

#### **Project: Automated Generator Testing System**

- I developed an Automated Generator Testing System that records and logs parameter data from a Multi-Function Meter (MFM) across a range of testing scenarios.
- Integrated load bank functionality to apply variable loads (in kW) and capture corresponding performance values in real-time using protocols such as ModBusTCP and ModBusRTU.
- Designed a flexible **report generation module** that allows users to customize templates and download results in Excel format, ensuring data can be easily analyzed and shared.
- I streamlined the testing process by automating data capture, load application, and report generation, thereby enhancing the accuracy and efficiency of generator performance testing.
- Tech Stack: ASP.NET, Entity Framework, C#, MSSQL, WPF.

#### **Project: Recipe Management System**

- I developed a Recipe Management System to automate and streamline the process of loading recipes to equipment, thereby addressing the manual errors and inefficiencies common in the pharma industry.

- Enabled remote recipe loading via a computer application, improving the process speed by **80%** compared to manual methods.
- Designed **recipe templates** where users can select tags, define value types (boolean, decimal, string), and create new recipes from these templates, improving efficiency.
- We implemented a soft approval process that requires higher management to review and approve recipes before loading them onto equipment, resulting in a 30% reduction in operational errors.
- I implemented audit trails to monitor and record all recipe-related activities, thereby enhancing accountability and traceability in compliance with security design principles.
- Tech Stack: **ASP.NET Core, Entity Framework, C#, MSSQL, React.js, Redux, Axios, AWS.**

## **PROJECTS**

### **QUANTUM MACHINE LEARNING**

**Role : Team Manager- Key Project**

2022 – 2020

- I led a team of four in a collaboration with Unisys to explore the emerging field of quantum machine learning, conducting research and developing a binary classifier for identifying computer-generated images.
- I collaborated with faculty and community experts to identify and implement effective solutions, providing regular updates on progress and making necessary adjustments to the project goals to ensure successful outcomes.
- Managed team workflow and delegated tasks effectively, ensuring timely completion of project milestones and weekly deadlines while also providing guidance and mentorship to individual team members.
- Successfully benchmarked the project algorithm against industry-standard datasets such as MNIST and the Fashion Dataset, as well as data provided by Unisys, demonstrating the efficacy and potential of quantum machine learning for image recognition tasks.
- Tech Stack: **Python , tensorflow-quant, OpenCV, IBM Qiskit, Google CIRQ, Xanadu PennyLane**

### **HAI MENTOR**

**Role : Full-Stack Developer**

May – 2025

- Built a mentorship and resource management platform for PG/UG - CET/NEET students in Karnataka, streamlining mentor-mentee interactions, session bookings, and document/resource sharing.
- Integrated secure document upload and management, ensuring each student's files are isolated and protected with row-level security.
- We enhanced engagement and communication by implementing real-time notifications to students about session updates, document changes, and important events.
- Developed advanced DataTable components with sorting, filtering, and pagination, improving resource management and user experience.
- Designed and integrated a session booking system, enabling students to efficiently book, edit, and manage mentorship slots.
- Implemented secure authentication and real-time database features using Supabase, ensuring privacy and robust access control for users.
- Tech Stack: **React, TypeScript, Supabase, shadcn/ui, Vite**

### **JOKES WEB APP**

**Role : Back-End Developer**

2023 – 2022

- I developed a web application using ASP.NET to provide stand-up entertainment to consumers, implementing CRUD functions to facilitate easy access and updating of user data.
- Streamlined data organization and retrieval by creating a search function within the web application, reducing the time and effort required for users to find the content they were looking for.
- Contributed to the development of a high-performing and reliable web application by writing efficient and maintainable code, utilizing best practices for data modeling and database design.
- Worked collaboratively with front-end developers and designers to ensure a seamless user experience and optimized application performance, effectively communicating and troubleshooting issues throughout the development process.
- Tech Stack: **ASP.NET, Entity Framework, C#, MySQL.**

### **SHORT-N-SWEET**

**Role : Full Stack Developer**

August – 2025

- Built Short N Sweet, a high-performance URL shortener with real-time click analytics.
- Designed and developed a **React + shadcn/ui** dashboard for link creation, management, and analytics visualization.
- Implemented **edge caching** and optimized redirects for sub-50ms resolution globally (5G).

- I incorporated additional features such as **QR code generation** and **abuse prevention**, utilising the Hono and Cloudflare middleware.
- Tech Stack: **Cloudflare Workers, Hono, D1, KV, React, TypeScript, Vite, shadcn/ui.**

## **SKILLS & INTERESTS**

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- Front-end development: HTML, CSS, React.js, JavaScript, TypeScript
- Back-end development: ASP.NET, C#, MySQL, Entity Framework, Message Queue
- Mobile app development: Android, Java, Android SDK
- Cryptography: AES encryption, network communication services
- Machine learning: binary classification, benchmarking against MNIST and Fashion Datasets
- Cloud computing: Amazon Web Services (AWS), Microsoft Azure
- Data analysis: SQL, Microsoft Excel, SSMS
- Project management: Agile methodology, task prioritization, task delegation
- Other Skills – IoT, Office 365, Embedded Systems

## **LANGUAGES**

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- English
- Kannada
- Telugu
- Hindi

## **CERTIFICATIONS**

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- Received certificate “ [Introduction to Cybersecurity](#) “ from Cisco
- Received certificate “ [Introduction to IoT](#) “ from Cisco
- Received certificate “ [Programming for everybody\(introduction to Python\)](#) “ from University of Michigan
- Received certificate “ [Python Data Structures](#) “ from University of Michigan
- Received certificate “ [Data Science for Engineers](#) “ from IIT-Madras
- Received certificate “ [Entrepreneurship Essentials](#) “ from IIT- Kharagpur
- Received certificate “ [Foundational C# with Microsoft](#) “ from Microsoft-FreeCodeCamp