Chandramouli Munjurpet Sridharan

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github.com/ChandramouliSridharan

Versatile Engineer with 2+ years of experience in full-stack development, data analysis, and deep learning to build efficient applications. Actively seeking full time roles starting July 2025 and open to relocation.

Education

University of Texas Arlington, USA, Master *of Science in Computer Science* | **GPA: 4.00**   *August 2023 - May 2025*
- *Courses*: Algorithms, Software Engineering (Analysis, Design, Testing, Management, Quality Assurance), AI, Machine Learning.

Anna University, Chennai, India, *Bachelor of Technology in Information Technology* | **GPA: 3.62**   *August 2017 - April 2021*
- *Courses:* Object-oriented design and programming, Database, Operating Systems, Data Structures, Software Design Patterns.

Skills and Certification

- **Programming & OS**   C# (.NET Core), Python, Java, C, C++, JavaScript, PhP, SQL, T-SQL, Linux (Ubuntu), Windows.
- **Software Methodology** Agile methodology, Scrum Practices, Sprint Planning and Execution, Software Development Life cycle.
- **Web Development**   WinForms, WPF, Angular, React Native, HTML, CSS, Tailwind CSS, Bootstrap, Selenium, WordPress (CMS).
- **Databases**   Microsoft SQL Server, SSMS, MySQL, Google Firebase.
- **Tools/Services**   ArcGIS Online and Pro, Jira, Git/GitHub, Visual Studio, Visio, Excel, Microsoft Office 365, Power BI.
- **Cloud Computing**   Microsoft Azure, Spark, Hadoop, Scala.
- **Certification**   Microsoft Azure Fundamentals (AZ-900), Azure Developer Associate (AZ-204)

Experience

Graduate Research Assistant, University of Texas at Arlington, USA   September 2023 – Present
- Contributed to **GIS map** creation and **data analysis** using **ArcGIS** Software, **Python** and **SQL** increasing project insights by 20%.
- Headed **GIS-based analysis** to identify 18,000+ orphaned oil wells in South and Southwestern U.S. with 2,300+ GW geothermal potential. Focused on tribal lands, HUB Zones, and re-energizing orphaned fossil fuel sites to support sustainable energy and land use development.
- Explored the **county-level analysis** of investments using ArcGIS for all 3,142 US counties, measuring amenities distribution and developing an optimization model to elevate amenity equity.

Software Engineer, Advantest India Pvt Ltd, Chennai, India   October 2022 – July 2023
- Developed microservice-based Console, Web, and Desktop applications using **C# ASP .NET Framework (Core & MVC)** and **MS SQL Server** improving system efficiency and achieving a 10% performance boost.
- Employed **xUnit** and **Fluent Assertions** packages for **Test Driven Development (TDD)** perform Unit test, integration test and reduce the number of technical issues by 20%.
- Designed applications following the **Single Responsibility Principle**, resulting in a significant reduction in code change impact which is less than 5% in the entire source code and integrated **Git/GitHub** for version control.
- Extracted large data from FTP Server using **FileZilla** and optimized data computation reducing the latency by 15%.
- Lead the development team of 5 throughout the software development lifecycle using an **Agile methodology** reducing backlogs by 10%.
- Collaborated with stakeholders and participating in code reviews with cross-functional team members to build a secure and scalable platform.

Programmer Analyst Trainee, Cognizant Technology Solutions, Coimbatore, India   March 2021 - May 2022
- Cultivated proficiency in the **C# .NET** stack through academic training to build full-stack applications following standard practices.
- Served as a team member supporting **front-end** and **back-end** web services of the application using HTML, CSS, JS, C# and REST APIs

Projects

Mental Health Sentiment Analysis using Deep Learning | Project Lead, BERT, CNN, LSTM, NLP, Tensorflow, PyTorch   **GitHub Link**
- Led a team of 4 and attained test accuracy of 93.74% by using **deep learning** models to classify sentiments, complemented with cross-validation and hypothesis testing to validate the performance of the developed models.

Lendmart - Mobile App | Project Manager, JavaScript, React-Native, Google Firebase, Tailwind CSS   **GitHub Link**
- Created a user-friendly e-commerce portal for item exchange using **React Native** for cross-platform compatibility and Google Firebase, incorporating project management activities using **Jira**, which resulted in a 5% increase in user engagement.

MNIST Image Classification using LENET -5 | Python, PyTorch, Sckit Learn, CNN, Computer Vision   **GitHub Link**
- Achieved a test accuracy of 98.41% for classifying handwritten digits with the **LeNet-5** architecture in **PyTorch**, along with data preprocessing and optimization of the model.

Publication and Honors

- **Publication:** *Re-Energizing Legacy Fossil Infrastructure: Evaluating Geothermal Power in Tribal Lands and HUBZones,* Sustainability Journal, **MDPI**.   *2025*
- **Honors:** Member of *'TAU BETA PI (Oldest Engineering Honor Society)'*   *2024*