

Shrada Chellasami

+1 (781) 204-3500 ✉ chellasami.s@northeastern.edu [in linkedin.com/in/c-shrada](https://www.linkedin.com/in/c-shrada) github.com/shradac

EDUCATION

Northeastern University, Boston, MA September 2022-May 2024
Master of Science in Computer Science **GPA: 3.9/4**
Courses: Design Patterns, Database Management, Algorithms, Data Management Processing, Cloud Computing, Web Development, Human Computer Interaction, Mobile Application Development(IOS)

Dayananda Sagar University, Bangalore, KA August 2018-June 2022
Bachelor of Technology - Computer Science **GPA: 3.6/4**

TECHNICAL SKILLS

Languages: Java, Python, SQL, C++, Swift, R, JavaScript, Bash, HTML, CSS
Frameworks/Libraries: ReactJS, NodeJS, Bootstrap, Flask, REST APIs, UI/UX Design, Wireframes, Pandas, Numpy, TensorFlow, Scikit-learn, Machine Learning, Deep Learning, CNN, Natural Language Processing, AWS, Git, Docker, Kubernetes, IOS, UIKit, XCode
Databases: MySQL, NoSQL, MongoDB
Software Development: Agile, Scrum, Jira, Confluence

RELEVANT EXPERIENCE

Juniper Networks - Software Engineer Intern May 2023-August 2023

- Architected and implemented a highly scalable **data pipeline** to extract and transform 200+ unstructured files using **pandas**. Programmed **Python** scripts for data scraping, mining and **ML** model deployment.
- Built data ingestion and preprocessing pipelines on **Linux** utilizing **bash**. Evaluated **large language models (LLM)** for automated script generation with improved efficiency by 20%.
- Drove **agile software development** and collaborated with cross-functional teams for requirements analysis of **NLP** applications. Performed testing and supported the development of features for the product.

Dayananda Sagar University - Research Assistant Jan 2021 - Mar 2022

- Trained and fine-tuned a Convolutional Neural Network model utilizing **TensorFlow** and **Keras** to predict pediatric bone age, lowering prediction errors by 24%.
- Published the “Skeletal Bone Age Determination using Deep Learning” in the ICAIHC 2022 detailing the **data analysis**, developed a model, enhanced productivity and improved accuracy.

Dayananda Sagar University - Data Science Intern May 2019 - July 2019

- Analyzed remote sensing data from MODIS satellite to compute 33 vegetation and water indexes, enhancing output accuracy by 20%.
- Formulated and executed vegetation index calculations in R, extracting necessary bands from datasets and produced 5 heat map visualizations for analysis after calculating indexes to showcase results.

PROJECTS

EduHub - Canvas Clone | React, Nodejs, Bootstrap, JavaScript, AWS September 2023 - December 2023

- Developed 25+ front-end components for core functionalities with **ReactJS** framework to deliver a seamless user experience. Deployed and hosted application front-end on **Amazon EC2** instances.
- Architected **scalable back-end** using **Node.js** and **RESTful APIs** integrating with **NoSQL** databases on Amazon DynamoDB, supporting over 1000 documents. Optimized data models and queries for performance.

Optimized Data Retrieval for an E-commerce Website | C++, OOPS January 2023-May 2023

- Built a highly **reusable C++** server architecture using **Object Oriented principles**. Designed cache, storage, routing and monitoring classes with clean interfaces. Increased testability and maintainability of business logic.
- Created multi-threaded data servers and an asynchronous networking framework in C++ to handle high volumes of concurrent requests without degradation in performance. Benchmarked throughput improvements of 60%.

Restaurant Management System | MySQL, Python, Flask, JavaScript January 2023-May 2023

- Designed a **MySQL** database to store 15+ features spanning menus, inventory, orders using **Python, Flask**.
- Collected requirements from over 20 users for their needs and use cases for a restaurant management system.
- Created a UI for employees to access real-time data and resolved issues via debugging and added **triggers** and schedulers to update prices, salaries, track orders and more.

Stock Market Simulator | Java, JSwing September 2022-December 2022

- Designed an **MVC** based **Java** Application to let 100+ users understand how to invest in Stock Markets.
- Integrated AlphaVantage **API** for data, application included buying stocks individually, through a periodical investment, or apply Dollar Cost Averaging Strategy to a portfolio, selling stocks, evaluating portfolio at any time.
- Adopted **SOLID** principles, **Object-Oriented Design**, improved flexibility by using over **5 design patterns**.