

Shrada Chellasami

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EDUCATION

Northeastern University, Boston, MA
Khoury College of Computer Sciences
Master of Science in Computer Science

September 2022-Present
Expected Graduation: May 2024
GPA: 3.9/4

Courses: Design Patterns, Database Management, Algorithms, Data Management Processing, Cloud Computing, Web Development, Human Computer Interaction, Mobile Application Development

Dayananda Sagar University, Bangalore, KA
School of Engineering
Bachelor of Technology - Computer Science

August 2018-June 2022
Graduated
GPA: 8.8/10

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 over 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 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 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.

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 more than **5 design patterns**.

Restaurant Management System | *MySQL, Python, Flask, JavaScript*

October 2022-December 2022

- Developed a custom restaurant management tool using **Python, Flask** and **SQL** for a small restaurant chain.
- Created a user-friendly interface for employees to input and access real-time data in the tool and resolved issues through debugging and programming. Used **MySQL** to design and implement a database to store and manage 15+ features such as admin, chef, menu, recipe and inventory information.
- Scheduled 10 events such as to increase price of dishes, employee salaries and other operations. **Triggers** used to update orders and payments based on table status.

TECHNICAL SKILLS

Languages: Java, Python, SQL, C++, Swift, R, JavaScript, Bash, HTML, CSS

Frameworks/Libraries: ReactJS, Redux, AJAX, NodeJS, JQuery, TensorFlow, Flask, Bootstrap, REST APIs, AWS, Pandas, Git, IOS, Numpy, Pandas, Tensorflow, Scikit-learn, Machine Learning, Deep Learning, CNN, Natural Language Processing, TypeScript, UI/UX Design, Wireframes, Docker, Kubernetes, UIKit, XCode

Databases: MySQL, NoSQL, MongoDB

Software Development: Agile, Scrum, Jira, Confluence