

Bhanu Prakash Reddy Chada

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EDUCATION

Virginia Tech

Masters in computer engineering CGPA: 3.88 (Intended Graduation Dec 2023)

Blacksburg, Virginia, USA

JAN 2022 - DEC 2023

Coursework: Theory of Algorithms, Big Data Engineering, Data Analytics, Machine Learning, Computer Vision

Jawaharlal Nehru Technological University

Bachelor of Technology CGPA: 9.76

Hyderabad, INDIA

AUG 2015 - APR 2019

EXPERIENCE

Virginia Tech

Blacksburg, Virginia, USA

Graduate Research Assistant

MAY 2022 - AUG 2022

- Gathered and Mapped Tropical Weather outlook data from National Hurricane Center (NHC) and trained a model (HWRP) to analyze and predict the tropical storm formation probability.
- Conducted analysis on historic data and tabulated observations which enhanced the storm prediction time by 8%
- Developed interactive charts and visualizations that provides a gist of mismatches in a season by majorly using python libraries Plotly, Matplotlib, Pandas, Numpy

Deloitte Touche Tohmatsu Limited

Hyderabad, INDIA

Software Engineer - 1

JUN 2020 - DEC 2021

- Designed and developed scalable e-commerce solutions using **Java microservices** and cloud computing, driving higher customer satisfaction through site responsiveness and streamlined transactions, leading to revenue growth of 19%.
- Enhanced the e-commerce database through advanced query optimization, incorporating **caching** and **indexing** techniques. This led to significant improvements in query response times and heightened system responsiveness.
- Revamped the e-commerce website through the integration of **React** for component rendering, culminating in heightened speed and responsiveness achieved by minimizing page load durations by 22%.
- Orchestrated end-to-end Continuous Integration and Continuous Deployment (**CI/CD**) workflows, utilizing Jenkins and GitLab to automate testing, integration, and deployment. Achieved faster feature releases and heightened app reliability.
- Defined essential **KPIs** to assess the efficacy of newly introduced features and validated these enhancements through a comprehensive **A/B** testing strategy, resulting in a notable 9% increase in overall user growth and engagement.
- Played a pivotal role in Production Support, addressing tickets and bugs, thus ensuring continuous, flawless functionality

Business Technology Analyst

JUN 2019 - MAY 2020

- Designed and developed responsive, cross-platform dashboards using **Tableau**, Power BI to improvise Management Action Plan (MAP), enhancing brand operations.
- Worked on data mining for large financial datasets to create static reports and providing insights, also involved in delivering many complex **SQL schema** to reduce data loading times for client interface web applications.

SKILLS

Programming Languages: Python, Java, C#, C++, SQL, JavaScript, React JS

Databases: Relational Databases, Microsoft SQL server, Azure SQL, MongoDB, PostgreSQL, Oracle

Tools/Frameworks: Django, Tableau, Jenkins, Hadoop, Spring boot, Spark, Git, AngularJS, Bootstrap, JQuery, VBA, Kubernetes

Cloud: AWS (SNS Topic, SQS, Step functions), Microsoft Azure (Data factories, Data Lake, Data Bricks), GCP, Docker

Machine Learning Models & Tools: Regression, SVM, RNN, LSTM, Pandas, NumPy, Tensor Flow, PyTorch, Scikit-learn.

Certifications: Certified Scrum Master(CSM®), Google Data Analytics Professional Certificate.

PROJECTS

Anomaly Detection Framework for Server Logs (Pyspark, Pandas, Kafka, TensorFlow)

MAY 2023 - JUN 2023

- Designed and implemented an Anomaly Detection Framework for Server Logs, employing machine learning algorithms such as Isolation Forest and clustering methods. Developed preprocessing pipeline to identify deviations from normal patterns, achieving 89.2% precision and 82.7% recall, reducing system downtime.

E-commerce Analytics Dashboard (Java, Spring, Rest, MySQL, Azure)

FEB 2023 - MAR 2023

- Built E-commerce Analytics Dashboard with Java, Spring (backend), Rest APIs (data communication), and MySQL (data storage). Utilized React JS for dynamic user interactions, delivering real-time insights into sales trends, customer behavior, and inventory management.