Krishna Praneet Gudipaty

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EDUCATION

University of Massachusetts Amherst   **Amherst, MA, USA**
Master of Science in Computer Science   *Sep 2022 - May 2024*
Courses: Theory & Practice of Software Engineering, Machine Learning, Quantum Information Systems   *CGPA: 3.90/4.0*

Indian Institute of Technology Madras   **Chennai, TN, India**
Bachelor of Technology in Metallurgical and Materials Engineering   *Aug 2016 - Dec 2020*
Courses: Data Structures and Algorithms, Cloud Computing, Machine Learning, Numerical Methods,   *CGPA: 8.75/10.0*
Linear Algebra, Probability & Statistics, Computational Engineering

WORK EXPERIENCE

Deskera   **Pune, MH, India**
Software Development Engineer   *Dec 2020 - Jul 2022*
- Developed webhooks microservice using Springboot and Apache Kafka for no-code workflow integrations for CRM and HRMS apps
- Researched and developed unified cart integration interface to automate inventory and payments synchronization with e-retail stores
- Optimized performance for large scale data transfer through events and multi-threading on multiple AWS servers using Kubernetes
- Onboarded senior and junior team members onto the cart integration project and compiled user and developer documentation

Publicis Sapient   **Bangalore, KA, India**
Software Engineer Trainee - Intern   *May 2019 - July 2019*
- Developed a trading platform for transacting funds with short-term maturities and tracking their performance using Java Springboot
- Built client facing application for trading, fund finder and portfolio management using ReactJs and Redux for state management

Boeing   **Bangalore, KA, India**
Research Intern - ADR Software   *Jun 2018 - Jul 2018*
- Researched and developed algorithm for defect recognition which is forecasted to improve the efficiency of NDT process by 50%
- Achieved a mean accuracy of 95% on quantifying the volume of defective segments through the use of the proposed algorithm

TECHNICAL ABILITY

- **Languages**: Java, Python, PostgreSQL, C++, JavaScript, HTML/CSS
- **Libraries**: ReactJS, NumPy, Pandas, Matplotlib, PyTorch, PySpark, Tensorflow, Scikit-Learn
- **Tools/Frameworks**: Springboot, Amazon Web Services (AWS), Apache Spark, Apache Kafka, Docker, Kubernetes, Jenkins, Maven, Gradle

PROJECTS

Elevation based Navigation System | Frontend | Backend   *Oct 2022 - Dec 2022*
- Built a navigation app using JS and React to suggest shortest path, considering elevation gain along the route for hikers and bikers
- Achieved an improvement in runtime performance of 4x by experimenting with Dijkstra's and A* algorithm against classical BFS

Rooters - Startup | Scraper   *May 2020 - Jul 2020*
- Collected bus route traffic and seat availability data for Southern India for market research through Python using Selenium webdriver
- Designed database schema and microservices-based system architecture in Django and compiled software requirement specifications

Machine Learning for predicting Platinum force fields | Thesis | Presentation   *Jan 2020 - May 2020*
- Researched on a non-linear Machine Learning based framework for statistically predicting Platinum force fields from coordinate data
- Developed a numerical fingerprinting algorithm for representing invariance in translation and rotation of 3D data to feature vectors
- Achieved performance of 1-5% variation in MAE using a tuned Kernel Ridge Regression model using 10-fold cross validation method

Spark Tweet Streaming application | Code   *Jan 2020 - May 2020*
- Built a Spark Streaming application for retrieving and segregating live tweets based on geographic origin using PySpark and Kafka
- Analyzed and identified frequent words and word associations using MLLib's FP-growth algorithm for the last 10-minute interval
- Deployed application on GCP using Compute Engine and created a UI with options to adjust mining parameters and view results

ACHIEVEMENTS

- **Codesignal**: Achieved a high score of 841 out of 850 on Codesignal Technical Coding Assessment
- **Certification**: Amazon Web Services (AWS) Certified Cloud Practitioner CLF-C01