Manas Desai

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SUMMARY

Results-driven Software Engineer with a deep passion for cutting-edge technologies and data-driven initiatives. Eager to contribute expertise in object-oriented programming (OOP) and software development life cycle (SDLC) across four years of experience in developing and maintaining high-performance production systems. Proven ability to create well-documented code bases, conduct rigorous unit testing, and provide valuable technical mentorship to both new graduates and interns. Seeking a challenging and collaborative environment where I can leverage my skills and continue to grow technically. Excited about the opportunity to join a dynamic team where I can make a meaningful impact.

EDUCATION

Appalachian State University, Boone, NC
Master of Science in Applied Data Analytics - December 2021
    Concentration: Supply Chain Management
Master of Business Administration – December 2021
    GPA: 3.83
Bachelor of Science in Business Administration - May 2020
    Major: Computer Information Systems

Programming Skills:	Business Skills:	Certifications:
• Python: Application Development and Unit Testing (Flask, Django, FastAPI, Jupyter Notebook), Machine Learning (PyTorch, Scikit-Learn, TensorFlow)	• Project Management	-Datacamp: Machine Learning for Everyone
	• Six Sigma Lean and Quality Management	-Datacamp: Forecasting in R
• R (Time Series Forecasting, Statistical and Quantitative Analytics, Regression Models, Econometrics)	• Supply Chain Analytical Modeling	-Datacamp: ARIMA Models in R
	• Agile Methodologies	-Microsoft: MOS Microsoft 365 Apps and Office 2019
• Reporting: Tableau (Data Cleansing, Data Analysis, Data Visualizations)	• JIRA	-SAS: SAS Programming 1: Essentials
	• Managerial Finance	
• Excel (Linear Programming)	• Marketing Strategy and Application	
• SQL	• Web and Security Data Management	

EXPERIENCE

Integrations Engineer: February 2023-Present   EDRAY CPL, Charlotte, NC
- Led creation of APIs to make development processes easier for the front-end and back-end engineers.
- Utilized AI toolsets such as ChatGPT and Co-Pilot to make development processes more efficient.
- Developed applications utilizing Python alongside flask and C# alongside azure functions, azure web apps, and azure DevOps which streamlined the integration of data and new toolsets into a proprietary software platform which is provided as a service to customers (SaaS).
- Collaborated in a startup environment to complete software projects in crunched timelines alongside external development teams and internal product managers.
- Diversified my skillset as wearing multiple hats was expected since team sizes were small; new skills picked up include C# development, TCP/IP, DNS, HTTP, and TLS configuration, deeper understanding of front-end development, and complex unit testing.

Data Engineer, Data Tools: January 2022-February 2023   Ally Financial, Charlotte, NC
- Programmed custom scalable scripts using python to migrate JSON formatted data with APIs using REST protocols and fastAPI through secure authentication and migration practices.

- Coordinated with business teams to identify and address data safety issues and ensure proper data encryptions.
- Designed and coded the framework of an application that scans resumes and matches them to job descriptions using text analytics and word clouds to target keywords (Resume Scanner).
- Led technical dialog for most business meetings as I was the primary developer for the data governance team.
- Collaborated with technical teammates to debug, deploy, and maintain larger scripts for production environment.
- Automated custom scripts through a Linux based server to ensure minimal human interaction is needed for Python-based applications utilizing Python2 and Python3 and PySpark.
- Planned future sprints and constructed stories for the team using JIRA and agile methodologies to ensure the terabytes of data we were writing code for was well maintained.
- Drew upon AWS toolsets (S3 bucket, Glue Jobs, and Lambda) to manage data resources and create pipelines.

Data Scientist (Contracted): August 2020-June 2021   NC-SBTDC, Boone, NC
- Utilized Machine Learning practices using R to create an algorithm which learned from test data to forecast business risk. I used those findings to create visualizations through tableau and python.
- Coordinated with team members from NC-SBTDC and the University to plan project scope and timeline.
- Conducted statistical analysis on survey data and provided forecasts, regression models, and other analyses.
- Constructed survey to collect data to analyze the supply chain of small businesses in North Carolina.
- Advised risk mitigation practices to avoid future supply chain conflicts for small businesses.

Data Analyst, GA: August 2020-July 2021   Appalachian State University-College of Business, Boone, NC
- Programmed automated spreadsheet updates, allowing easier transfer of information across multiple sources.
- Conducted research for a project looking at the correlations between the market fluctuations of cryptocurrencies and the societal impacts of the pandemic as well as authored in a published article.

Data Analyst Intern, Claims: May 2019-Aug 2019   National General, Winston-Salem, NC
- Analyzed data for the claims department to find whether a new proprietary tool they were using had a positive impact on the time spent filing claims. Correlational analysis showed the tool to cause hinderance rather than help. My findings helped save the company around $600,000 that year.
- Learned how to use python to make data cleaning and data mining easier for large datasets through the guidance of a mentor. Was also introduced to Oracle as it was my first exposure to ERP systems in workplaces.