

Aashish Tangnami

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PROFESSIONAL SUMMARY

- Results-oriented Software and Data Engineering professional with nearly 3 years of experience in developing scalable, data-driven solutions for high-impact applications.
- Expertise in building and optimizing end-to-end data pipelines, machine learning models, and AI-driven applications, with a strong focus on automation, performance, and scalability.
- Proven ability to lead complex projects from conception to delivery, driving operational efficiency, cost reduction, and compliance with industry standards.

TECHNICAL EXPERTISE

- Programming Languages: Python, SQL, JavaScript, R, Rust
- Frameworks/Libraries: Django, FastAPI, Pandas, NumPy, Keras, TensorFlow, PyTorch, NLTK, OpenCV, Scikit-learn
- Databases: SQL, PostgreSQL, MongoDB,
- Tools/Platforms: Jira, Notion, Git, PySpark, Hadoop, Hive, AWS
- Specializations: Data Science, Artificial Intelligence, Machine Learning, Data Visualization, Natural Language Processing, Computer Vision, Deep Neural Networks, Statistical Analysis, LLM, Fine Tuning

EXPERIENCE

Direct Global/ Direct-coop.

Toronto, Canada

AI Software Engineer (Remote)

Sep 2023 – Jan 2024

- Spearheaded the development of a data entry automation application, eliminating manual entry and slashing data processing costs by 100%.
- Page Object Model (POM) and Page Factory Architecture in application design, streamlining development and maintenance processes.
- Ensured compliance with data regulations, maintaining client data integrity.
- Employed best practices in API security, version control, and documentation for enhanced system robustness and maintainability.

TAI Inc.

Kathmandu, Nepal

Software Engineer

Jan 2021 – April 2022

- Led the redevelopment of a KPI monitoring web application, transitioning from VBA to Python and AngularJS and Elasticsearch stack, improving data processing speed by 50%.
- Adopted DRY principles and agile methodology which improved software maintainability and accelerated the release cycle by 30%.
- Conceived and critically evaluated test routines using SonarQube increasing code quality and reducing bugs by 20%.
- Deployed the system as staging on a serverless platform like Amazon's Elastic Container Services (ECS), and Elastic Compute Cloud (EC2) by utilizing Docker and CI/CD pipeline enabling real-time data processing and uptime 99%.
- Pioneered and rigorously assessed an innovative coding curriculum for K-12 students, under the mentorship of a senior AI engineer at APPLE and an Infrastructure engineer in Tokyo. Successfully implemented the curriculum in two schools in Nepal.

Outlines Research and Development , Python Developer Intern

Lalitpur, Nepal
Sep 2020 – Dec 2020

- Automated data extraction pipeline using Python, OpenPyXL and Selenium to fetch data from Excel files, streamlining the data.
- Leveraged python web frameworks like BeautifulSoup4 to scrape data from websites and seamlessly store it into Excel enhancing data collection.
- Streamlined data scraping using python reducing manual data entry improving efficiency in data manipulation and processing by 40%.

Kunyo.co, Junior Software Developer

Kathmandu, Nepal
Oct 2019 – Aug 2020

- Strategically analyzed clients' project requirements, gaining insights into their business background to inform website development strategies.
- Spearheaded in designing and building websites using scripting languages like PHP, HTML5, CSS3, JavaScript, and MySQL under mentorship resulting in a 25% increase in client satisfaction.
- Collaborated with senior developers in developing and validating test routines and schedules using automated testing strategies, ensuring high-quality web applications, delivering projects 20% faster.

EDUCATION

Ontario College Graduate Certificate in Artificial Intelligence and Data Science
Loyalist College, Toronto, Canada

May 2022 – Dec 2023

Bachelor's in computing (Hons, Software Engineering)
University of Northampton (UK)

Sep 2016 – August 2019

PROJECTS

- End to End ETL Pipeline:
 - Data Pipeline Orchestration: Set up and manage data workflows using Databricks, including automation and scheduling of ETL processes.
 - Design Patterns in Data Engineering: Applied the Factory Design Pattern to keep the pipeline flexible and scalable, ensuring code reusability.
 - Optimization and Scalability: Gained experience in optimizing the data pipeline for performance, ensuring that it can handle large datasets efficiently.
- Spam Classifier:
 - Leveraged NLTK, TensorFlow, and Scikit-learn for NLP and machine learning, significantly enhancing email filter efficiency and improving user experience by minimizing spam.
- Customer Segmentation Analysis for Mall Customers:
 - Conducted in-depth exploratory data analysis on mall customer data with supervised learning algorithms such as logistic regression, decision trees, random forest, and Naive Bayes, uncovering age, income, and spending patterns that indicate distinct customer segments. Leveraged this analysis to form targeted marketing strategies, emphasizing the inverse relationship between age and spending score.

CERTIFICATION

AWS Certified Data Engineer - Associate

Expected Nov 20 2024