Anish Shrestha

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Education

Miami University   Oxford, OH
Master of Science in Computer Science   Expected May 2023

Tribhuvan University   Kathmandu, Nepal
Bachelor of Computer Engineering   September 2012 - September 2016

Work Experience

Miami University   Oxford, OH
Graduate Research Assistant   August 2021 - Present
- Implemented project on Natural Language Generation from Mind Maps using Generative Pretrained Model
- Collaborated with 2 graduate students to author research paper on applicability of language generation
- Co-conceptualized and implemented HoloLens 2 application for collaborative concept map modeling

ToggleCorp   Kathmandu, Nepal
Senior Software Developer   July 2020 - July 2021
- Co-led an agile development of Internal Displacement Monitoring Center's (IDMC) migration tracker application
- Integrated CI/CD using Docker + Github + AWS Copilot to reduce deployment time to single clicks
- Performed Extraction and Transformation on 10,000+ legacy text-based data in several database tables to Load (ETL) into the novel system using Javascript and bash
- Created generator for automatic analytical reports using SQL queries to speed up report generation
- Created GraphQL API and error handling framework for internal developers

WhyUnified   Remote
Software Developer   October 2018 - December 2019
- Led development of internal Business-to-Business (B2B) platform comprising 3 micro-applications
- Conducted internal reviews and software testing and made weekly reports communicated to the CEO
- Led 2 junior programmers and coached on development stack, coding practices, and reviews

InfiniaHub   Kathmandu, Nepal
Software Developer   October 2016 - January 2019
- Developed and managed E-commerce software "InfiniaStore" to allow retail stores to sell online
- Initiated application containerization using Docker to ease cross-platform development and deployment
- Experimented with emerging technologies like GraphQL to reduce development time over 30%

Skills

- Languages: Python, Javascript, C#, SQL, PHP
- Frameworks: Django MVC, GraphQL, REST, React.js, jQuery, pytest, AWS, Latex, Jira
                     Pytorch, Numpy, pandas, nltk, spacy, Huggingface, matplotlib, Jupyter notebook
- Databases: PostgreSQL, MySQL, Redis
- Other: Git, Docker, Linux, bash, nginx, DigitalOcean

Projects

Automated Facial Expression Recognition   September 2016
- Served as core contributor to produce a comparative analysis of Support Vector Machine and Convolutional Neural Network for facial expression classification

- Added feature extraction using techniques like Principal Component Analysis with Gabor Filters and Local Binary Patterns

English Premier League Score Prediction   March 2016
- Implemented and trained AI with different naive machine learning techniques to study football winner prediction in unseen games

Certifications

Computational Methods for Data Analysis	Coursera, Uncertified
AWS Fundamentals: Going Cloud-Native	Coursera, Credential: WXP986AVCJAR
Machine Learning	Coursera, Credential: A5XAV6Z8KHUW
Introduction to Deep Learning	Coursera, Credential: WNNKGCESQEFP