Anish Shrestha

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CAREER PROFILE

Proven leader with strong foundation in software development and programming principles, as well as having a track record of consistently meeting project deadlines.

Languages: Python, Java, Javascript, C#, SQL
Database: PostgreSQL, MySQL, Redis
Frameworks: Django, React, GraphQL, Spring, Java EE, REST, Docker, jQuery, pytest, AWS, Pytorch, Numpy, pandas, Huggingface, Laravel, matplotlib, Celery
Tools: Git, Github, Bitbucket, Unity, XR (Extended Reality), Linux, bash, nginx

EDUCATION

MIAMI UNIVERSITY   Oxford, OH
Master of Science in Computer Science – GPA: 3.8   Aug 2021 - May 2023
- Courseworks: Web services, Machine learning

INSTITUTE OF ENGINEERING, PULCHOWK CAMPUS   Kathmandu, Nepal
Bachelor's in Computer Engineering – GPA: 3.7   September 2012 - September 2016
- Courseworks: Software engineering, Data structure & algorithms, Object-oriented analysis and design

PUBLICATIONS & APPEARANCES

- Automatically explaining a model: using deep neural networks to generate text from causal maps. *Proceedings of the 2022 Winter Simulation Conference*, ACM/IEEE ⊡
- Automatic text generation to explain simulations. *Symposium on Natural Language Processing and Simulation*, 2022, Miami University ⊡

EXPERIENCE

Miami University   Oxford, OH
Graduate Research and Teaching Assistant   August 2021 - Present
- Collaborated with two graduate students to publish work on Natural Language Generation from Mind Maps using Generative Pretrained Model ⊡
- Co-conceptualized and implemented XR 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
- Implemented automated tests using unittest and pytest

WhyUnified   Tampa, Florida, USA (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 a team of 2 programmers and coached on development stack, coding practices, and reviews

InfiniaHub   Kathmandu, Nepal
Software Developer   October 2016 - September 2018
- Developed and managed eCommerce software "InfiniaStore" to allow retail stores to sell online

PROJECTS

Collaborative concept maps modeling in Extended Reality May 2022
- Led the development of VR / AR application ⊞ for Microsoft Hololens 2 using C# in Unity, Mixed Reality Toolkit (MRTK), and Visual Studio

Automated Facial Expression Recognition September 2016
- Implemented the feature extraction components for facial features using Gabor filters
- Used PyTorch to create CNN layers to train facial expressions recognition model and evaluate
- Transported the ML model to directly evaluate and annotate facial expression on a live video input

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 ⊞