ANAND SAI MISHRA

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EDUCATION

Master of Science, Computer Science   Aug 2018 - *Current*
California State University, Dominguez Hills (Graduating: December 2020)
Bachelor of Technology, Computer Science and Engineering   July 2013 - June 2018
National Institute of Technology Rourkela, Odisha, India

CORE COMPETENCIES AND SKILLS

Programming Languages	Python, JavaScript C, C++, Swift, HTML.
DevOps	SDLC, Object-Oriented Design, Agile Development, Git
Platforms	Angular, Rest API, Wordpress, LINUX Bash, BERT.
Frameworks	YOLOv3, TensorFlow, PyTorch, SciPy, Keras, Mininet, RYU, IOS Development
Cloud Platforms	Amazon Web Services, Microsoft Azure, Google Cloud Platform.
Non-Technical	Multilingual, International Student, Photographer, IEEE Member: 97240149

WORK EXPERIENCE

Adjunct Lecturer of Computer Science at **CSU Dominguez Hills**   Sept 2019 - *Current*

- Developed courses that involved subjects like *Operating Systems and Networks (CTC228)*, Computer Forensics and Investigation (CTC328) & *Advanced Database Management Systems (CSC553)*.

- Taught topics like virtualization, file management systems, Process handling, networking layers network security, Database Management, Data Analytics and Optimization usage of Artificial Intelligence in security and modern data center optimization.

- Researched on various Computer Networking and Data Optimization techniques.

- Helped develop the coursework for subjects like IOS Programming.

IOS Application Developer at **CodePath**   June 2020 - *Current*

- Designed multiple IOS applications that included Twitter Client application, Movie review Application and Restaurant Review Application.

- Designed a COVID Screening application that gives the user determine if he/she needs to isolate themselves based on the self reported conditions using SWIFT 5 and AlamoFire.

- Taught students from undergraduate and graduate background on various software development methodologies of developing an application for the Apple Ecosystem.

Graduate Research Assistantship at **CEIE, CSU Dominguez Hills**   Feb 2019 - August 2020

- Implemented a system of Database for the incoming students which replaced the existing filing systems.

- Improved the efficiency of the office and reduced the time required to process requests from students by 2 days.

- Reduced the time required to process admission documents by 3 days.

- Implemented ML-based prediction algorithms to predict and focus the advertisements to high yield areas for International Student Admissions.

Corporate Data Analytics Intern at **Neyveli Lignite Corporation**   May 2016 - June 2016

- Worked on Corporate System Administration, Network Management.

- Optimized the Industrial and Power-plant Data Collection and Analysis.

- Maintenance of Enterprise's Resource Management Software.

- Implemented the network backbone in the industry improving the network efficiency by 50%.

PROJECTS AND ACADEMIC EXPERIENCE

Handwriting Recognition for numbers in Roman Script [GitHub]   June 2020
Developed an ML and Artificial Neural Network powered handwriting detection system using TensorFlow Framework and Keras Backend to enable handwriting recognition with 99% accuracy.

IMDB - Movie Review sentiment analyser [GitHub]   June 2020
Developed a TensorFlow and Keras(Backend) powered sentiment analyzer that can detect if the review left for a particular movie is good or bad based on the terms used in the Review. It uses Word Embedding for the mapping.

Real-Time Object Detection using YOLO v3   Dec 2019
Developed projects and researched about real-time object detection on camera feed and implement it for self-driving situations such as on-road situation and pedestrian detection.

Machine Learning based Implementation of the shortest-path algorithm in data-center   Aug 2019
Developed VM, MB and VM-MB based algorithms for middle-box placements in a k-array data center.

Asynchronous Cryptography based Inter-Vehicular Ad-Hoc Message Authentication   Aug 2019
Worked on a research project based on using asynchronous methods to authenticate messages being passed between various vehicles and posts appointed at the roads for guidance and updates.

Lwitter - Twitter Client using Twitter API (IOS Application) [GitHub]   May 2018
Built on Xcode 12, AlamoFire and Twitter Official API to build a twitter Client that can serve as the main twitter client for users.

AR and ML based Clipboard sharing Application   June 2020
Built on Xcode 12, This application uses the iPhone camera sensor to scan things in the physical plane and paste it on the computer word document using the Apple Universal Clipboard.

Home Media Center based on RPi 4   May 2020
Developed a personal streaming system using RPi4 and Linux. It is used to broadcast various streaming services straight to my TV.

CURRENTLY ACTIVE PROJECTS

Improving Sentiment Analysis using Emotion Detection   Nov 2020
This project is developed using PyTorch and BERT. It is posed and developed with the goal to detect and classify early detection of Depression in teenagers. With the current teens choosing to use texting based communication more than audio or video based communication. It makes it important for us to be able to detect the emotions from written words. Hence this project attempts to detect the early signs of depression using Natural Language processing and Bidirectional Classifier.

Working on Amazon Cloud Practitioner Certification   Dec 2020
Working towards getting certified towards Amazon Cloud Practitioner certification in the next month. This will be the first step in my professional growth as a certified cloud professional.