AACHAL THAPA

Fairfax, VA | aachalthapa101@gmail.com | LinkedIn | Github | +1(571)495-0959

EDUCATION

George Mason University, Fairfax, VA   **August 2018 – May 2020**
MS in Computer Software Engineering
Selected Coursework – UI Design and Development, Database Programming, Object Oriented Specification and Construction, Software Testing, Software Project Management, Component Based Software Development, Software Modeling and Architectural Design.

St. Xavier's College, Tribhuvan University affiliated, Kathmandu, Nepal   **October 2012 – June 2016**
B.S. in Computer Science and Information Technology

TECHNICAL SKILLS

- Programming: Java, Python, JavaScript
- Web Development Technologies and Frameworks: Spring, React, Angular, NodeJS, HTML5, CSS
- Tools: Git, Jenkins, Docker, Kubernetes, GitHub, Bootstrap, Photoshop, Canva
- Cloud Services: Amazon Web Services, Google Cloud Platform

PROFESSIONAL EXPERIENCE

Department of IT, George Mason University   **August 2019 – May 2020**
Graduate Teaching Assistant
- Conducted lectures on Introduction to Computing classes of strength 90 students
- Grading and supervised student's semester project

Pre-college Cybersecurity Instructor
- Conducted lecture class for Cybersecurity classes and conducted hands-on lab session

Center for Assurance Research and Engineering, George Mason University   **October 2018 – May 2019**
Research Assistant
- Created a highly scalable proxy server using AWS Lambda function that accepts a web request and proxies the request to a back-end HTTP server (NodeJS)
- Modified the lambda function to be able to switch from one application server to another and Load testing to check performance and scalability.

Golchha Organization, Kathmandu, Nepal   **April 2018 - July 2018**
Sr. Digital Marketing Executive
- Supported marketing of the business house by utilizing different social media platforms, Google Analytics
- Graphic designing with Illustrator, Photoshop and Canva

The Innovia Group LLC, Kathmandu, Nepal   **June 2016 - December 2016**
Software Developer and QA Intern
- Created a RAPID application 'TeamStub' implementing agile software development practices using PHP framework Laravel for backend, HTML, CSS and JQuery for front end and AWS for server operation

PROJECTS

University Survey Application - Fall 2019
- Built a dynamic web project using AngularJS as the frontend, RESTful services and DynamoDB.
- Containerized the application on Docker, deployed it on Google Kubernetes engine and implemented CI/CD pipeline using Jenkins Build Automation tool
- Later deployed this as a Serverless application using Amazon S3, API Gateway and Lambda

City Parking Assistant - Fall 2018
- Built the application using HTML, CSS and PHP
- Embedded Google Map iFrame which displays parking spots with an image and location details

News Bias Detector - Fall 2018
- Built the demo application to reduce the level of deception and confusion for the users in the media world
- Tools used was Amazon Comprehend, RSS, HTML and CSS

pawsCare: ICT for the welfare of street animals - 2016
- Built the website using Apache web server, MySQL, HTML, CSS, Bootstrap and PHP Laravel Framework v5.2 that also contains click to text button option

AFFILIATION

Nepali Women in Computing (NWIC)   **March 2020 – Present**
Board Member - Designing logos and banners for the organization