SAMYAM THAPA

Graduate student, University of Texas at Arlington

+1 682 283 6594 saimonthp5@gmail.com / linkedin.com/in/samyam-thapa-042a5886/

OVERVIEW

Graduate student, with Computer Science major, at University of Texas at Arlington whose interests are solving every day tasks using coding, machine learning, also working with cloud computing and application development-based web services.

EDUCATION

University of Texas at Arlington May 2023
MS In Computer Science **GPA**: 3.67

National Institute of Technology, Delhi Jun 2018
B. Tech. In Computer Science and Engineering

TECHNICAL STRENGTHS

Languages	Java, SQL, AngularJS, Python, C
Python Libraries	Pandas, NumPy, Sklearn, Matplotlib, TensorFlow, Keras
Computer Graphics	Blender
Web	Groovy & Grails, JavaScript, Jquery, HTML/CSS
SDLC/Documentation	Agile/Scrum
Platforms/ Frameworks	Windows, UNIX/Linux, Spring, Grails, Cura, Prusa3d

EXPERIENCE

Software Engineer Deerwalk Inc., Lexington, MA | Kathmandu, Nepal **Jan 2020 – May 2021**

- ✧ Performed data analytics and provided integrated informatics and actionable healthcare data from raw patient data. This supported period-to-period comparisons and trend analysis.
- ✧ Developed reporting, and search modules based on US healthcare data and implemented its exports using various APIs (MS Aspose Report).
- ✧ Designed and developed modules in Java/Groovy and also in AngularJS that read the data from Web-Services (RESTful Services).
- ✧ Worked in Grails framework and User Interface implementation along with Front-End full-stack development of the application in JavaScript/jQuery. Data Visualization done using Highcharts and D3.js.

Associate Software Engineer, Deerwalk Inc., Lexington, MA | Kathmandu, Nepal **Jan 2019 – Jan 2020**

- ✧ Analyzed existing code- base in java/groovy. Fixed bugs, ensured that the quality met the requirements, and the implementation was complete within the deadline.

3-D Prosthetics manufacturing trainee E-nable Nepal, Kathmandu **Jun 2018 - Sep 2018**

- ✧ Studied about preexisting prosthetics designs for arm (named Alfie) and hands (named Pheonix) from team Unlimbited.
- ✧ 3-D printing training: setting up the printer which included base plate levelling, material knowledge about the types of plastic; their melting nature and use cases, using supports while printing hollow structures, the speed of the nozzle and the viscosity of the plastics to be used in different cases, etc.
- ✧ 3-D modelling training: use of Blender to modify the original prosthetics design to fit the measurements of different recipients.
- ✧ Developed a recipient registration system that helps keep track of the recipient's personal information, measurements and consent in a database.

PROJECTS WORKS

Soccer match result prediction **2022**
Prediction of scores of English premier league matches (2005- current) using SVM and XGBoost.

Nepalese vehicle number plate recognition system, University of Texas at Arlington, **2021**
The main objective of the project is to create a vehicle number plate recognition system using lighting-controlled video/images of various types of auto-motives of Nepal and finally categorize them into odd and even number plates. Each task of plate localization, character segmentation, and numeral recognition uses various image processing algorithms as well as neural network-based models as provided by different python and TensorFlow libraries.

Plan Analytics, US Healthcare Data Analytics, Deerwalk Inc., **Jan 2019 - May 2021**
A team project. My major contribution has been in developing Report manager, a Reporting application developed for cross application report exchange. RestAPI widely explored and the reports generated in Microsoft Aspose. My other roles included creating a drillable dashboard that helps client to get overall insight of application from one place, re-factor existing web services making it thread-safe and externalize configurations and make backend service for Export isolated from front-end.

Executive Analytics, US Healthcare Data Analytics, Deerwalk Inc., **Jan 2019 – May 2021**
Another team project, built in AngularJS to show customized insights of Plan Analytics in shortened format for the ease of executives. My contributions here include building a dynamic dashboard selection and personalization module.

ZEUS, Interactive Chatbot, National Institute of Technology, **2018**
Built a voice assistant for windows using Google's voice-to-text converter, python pyttsx and espeak packages for text to speech conversion, Wolfram Alpha knowledge database and python for window functions.

Rankster, Cricket players' database web application, National Institute of Technology, **2016**
Designed a cricket ranking website for 2nd year DBMS project using HTML, CSS, PHP and SQL. The database of players' attributes was maintained using SQL and was extracted using PHP. The website was hosted locally using XAMPP. The rankings were based on custom parameters.