SAMYAM THAPA

Software Engineer, Cedar Gate Technologies, LLC

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EDUCATION

National Institute of Technology, Delhi — Aug 2014 - Jun 2018
B. Tech. In Computer Science and Engineering

St. Xavier's College, Kathmandu, Nepal — Aug 2011 - Jun 2013
Cambridge International A-Levels

Budhanilkantha School — March 2011
School Leaving certificate (SLC)

TECHNICAL STRENGTHS

Languages	Java, SQL, AngularJS, Python, C
Python Libraries	Pandas, NumPy, Scikit Learn, Matplotlib
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 - Present**

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. Worked in AWS tools such as AmazonSQS for queue messaging, Amazon CloudWatch for application log monitoring, Amazon CodeCommit for addng files to git and merging to master from spearate branches. Kibana was also used for application log and parameters tracking.

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

Analyzed existing code-base in java/groovy. Bug fixes. Ensured that the quality meets the requirements and the implementation was complete within the deadline.

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

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 platic; their melting nature and use cases, using supports while printing hollow structures, the speed of the nozzle and the viscocity 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 reciepients.

Developed a recipient registeration system that helps keep track of the recipient's personal information, measurements and consent in a database.

PROJECTS WORKS

Plan Analytics, US Healthcare Data Analytics, Deerwalk Inc., Jan 2019 - Present

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 congurations, and, make backend service for Export isolated from front-end.

Executive Analytics, US Healthcare Data Analytics, Deerwalk Inc., Jan 2019 – Present
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, WolframAlpha knowledge database and python for window functions.

Basic scanner of C language in Lex, National Institute of Technology, 2017
Made a scanner (lexical analyser) for C as a project for 3rd Year Compiler Design course using C and Lex. The lexical analysis, being the first stage of a compiler, is used to identify variables, key words, and all the 'terms' used in the source code, and classify them as tokens. Lex was used to specify what 'term' refers to what class of tokens. For eg, in the line a=b+c; a,b and c have token class int (or float, real,etc.), = has token class relational operator and ; has token class delimiter.

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 various parameters set by myself.

EXTRA-CURRICULAR AND OTHER INVOLVEMENTS

Winner of Inter Branch Football/Soccer Tournament (2014 and 2018) at National Institute of Technology (NIT), Delhi

Winner of Short-put event in Sports Fest 2014 at NIT Delhi

Member of Arts Club 2016-18 at NIT Delhi

Community Service including giving out clothes in various districts of Nepal during and after the 2015 earthquake of Nepal, scholarship to a needy student at Bloom School Nepal, provide occasional dinner service to orphans at Pranavananda Ashram Kathmandu, organizing charity futsal tournaments, etc. as one of the founding members of Kathmandu based NGO 'Apar Foundation' since 2012.

REFERENCE

Dr. Anurag Singh	Assistant Professor, Department of Computer Science and Engineering, National Institute of Technology, Delhi
Dr. Vinay Shankar Pandey	Assistant Professor (Physics) and Head, Department of Applied Sciences, National Institute of Technology, Delhi
Dr. Shriraj Shrestha	Associate Professor, Orthopedics Department, Specialist in Arthoscopy & Arthoplasty Clinic, KIST Teaching Hospital, Kathmandu Nepal Medical Council No. : 3732