ROHAN SAMPSON

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EDUCATION

AMITY UNIVERSITY, Noida

Bachelor of Technology in Computer Science and Engineering
Amity School of Engineering & Technology

- First Division with a CGPA of 7.18, degree awarded on 11th November 2017.
- Major Project on *"Semantic Error Detection Using Machine Learning"*.

Delhi Public School Ghaziabad Vasundhara, Vasundhara, Ghaziabad

Classes X and XII

- Graduated Class XII with 76.2%,
- Graduated Class X with a CGPA of 9.0

PROFESSIONAL EXPERIENCE

Facillima Software (formerly PLG Management Consultants), Ghaziabad

Software Engineer August 2018 – Present

- Responsible for designing, developing, testing, administering, deployment and maintenance of a 3-tier Equipment management and reporting application on the .Net framework.
- Contributed towards numerous efficiency and stability improvements that led to increases of up to 50% in terms of application performance.
- Identified and resolved deadlocks across all tiers.
- Responsible for migrating towards a stack of newer technologies (Windows Mobile and SQLCE to Android and SQLite)
- Assisted in UX design and development for multiple Web and Mobile applications
- Designed and developed an audio analytics prototype solution with Machine Learning technologies using the .NET framework and Python.
- Implemented and improved the design for a Priority calculation algorithm with database synchronization using the .NET framework.
- Assisted the project lead in tracking current project developments and estimation of the expected project completion schedule.
- Provided system maintenance and support procedures for log files update, database tables and stored procedures for SQL Server 2018 and SQLCE Server 3.5.

IBM GTS, Chennai
Associate Technical Operations January 2018 – June 2018

- Enforced mainframe storage administration procedures.
- Worked with & supported other technical groups to provide end-to-end service and problem identification/resolution.
- Maintained Operational system storage capacity.
- Performed routine backup through batch processing operations.
- Provided Disaster Recovery assistance.
- Created JCL scripts providing solutions for Storage associated tasks such as DASD and Tape allocation errors.
- Experienced with DFSMS and Non-SMS managed environments and tools such as TSO, ISPF, SDSF, SMF and RMF.

AGNICIENT TECHNOLOGIES, Noida
Android Development Intern May 2016 – July 2016

- Participated in the Design, Development, Bug fixing, Knowledge Transfer Sessions and Maintenance of the Application
- Participated in Designing and Development of App screens and its workflow using Activities and Fragments with rich UI elements.
- Implemented GPS location-based services and Google Maps API to add region-based outlet detection.
- Added Google Cloud Messaging support to the application.
- Incorporated third-party libraries such as Picasso, GSON, Retrofit and Espresso into the application.
- Worked with REST API synchronizing new data to the device using SQLite and JSON.
- Utilized Agile Development Methodology.

PUBLICATIONS

Implementation of PingER on Android
7th International Conference on Cloud Computing, Data Science & Engineering – Confluence
Added to IEEE Xplore: 08 June 2017

- Presented a new implementation of the PingER project originally designed for Linux Systems.
- Discussed a rework of the measurement tool dealing with large amounts of data from the stground up.
- Described advantages over the former system due to its size and Software.
- Compared two contrasting models and chose to implement a model that used the native Android tools rather than mimicking the original Perl based implementation.

PROJECTS

Semantic Error Detection Using Machine Learning
Major Project, Amity University
Python Application

- Aimed to improve upon the performance of statistic-based error detection methods used in Language correction by using Artificial Neural Networks for Deep Learning.
- Intended to detect semantic errors normally ignored by other spell-checking algorithms.

- Built a tool that can detect semantic errors in Natural Language and predict corrections for the same.

Android Implementation of the PingER Project, SLAC
Collaborative Project between Amity University and SLAC Laboratory
Android Application

- PingER was developed by Stanford Linear Accelerated Center as a tool for Internet End-to-End monitoring.
- The PingER measurement tool was deployed on host servers running UNIX based systems. However, these servers had limitations.
- Introduced advantages such as greater power efficiency, ease of installation, maintenance, reduction in storage dimensions and better affordability.
- Implemented a model that used the native Android capabilities rather than mimicking the original Perl based implementation.
- Overcame compatibility, design and feasibility challenges.
- Incorporated technologies include Java, Perl, and Regex.

Issue Management and Tracking System
Collaborative Project between Amity University and Drexel University
Web Application built in PHP

- Designed and Developed a Web Application for the client StorykeeperEvents, Philadelphia.
- Lead the Development team at Amity University, working alongside a Management team from Drexel University.
- Built an Issue Management and Tracking System for Events held by the client.
- Used PHP, Materialize CSS, JavaScript and JQuery.

PingER Server Deployment and Administration, SLAC
Collaborative Project between Amity University and SLAC Laboratory
Linux System Administration and Programming Scripts

- Set-up first the and only PingER server ever set-up in India
- Installed, Configured and Maintained the PingER server for End-to-End measurement of network data.
- Sent back data collected to SLAC Laboratory and helped do comparative studies based on the huge amount of data collected.
- Modified and modernized some parts of the Project's source code and the assisting scripts to become functional in our operating environment.
- Administered and Maintained the server for 1.5yrs

Cloud Based File Compression
In-House Project, Amity University
Java Application

- Compressed files through an Internal Cloud based file compression System in the XZ format.
- Communicated between machines through Client and Server Socket Communication and hosted Cloud storage using OwnCloud with the application as an extension to its functionalities.

ACHIEVEMENTS

Annual Projects and Posters Technical Competition (APPTeC) 2017
Among Top 100 Projects (from a pool of more than 3000 projects)
"Semantic Error Detection Using Machine Learning"

AMCAT "Topper for the Quarter February'18 – April'18"
Among the highest employability scores in India
90.9 Percentile in Programming and 97.7 Percentile in Quantitative Ability across the country

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COURSES AND CERTIFICATIONS

Machine Learning
Coursera
Offered by Stanford University and Andrew Ng

Software Engineering Certification
AMCAT, *Aspiring Minds*

Data Processing Specialist Certification
AMCAT, *Aspiring Minds*

Agile @IBM
IBM Learning

zSystems Essentials
IBM Learning

CONFERENCES

Confluence 2013
Amity University
The 4th International Conference on Social, Mobile, Analytics & Cloud Technologies

Entrepreneurship Summit 2015
IIT Bombay

Confluence 2017
Amity University
The 4th International Conference on Cloud Computing, Data Science & Engineering

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OTHER

Foreign Business Language - French
Acquired working knowledge of the Language through courses for the duration of 4 years

Professional Communication Skills - English
Specialized Communication Training for Professional Environments

Military Training Camp
Amity Green Horns Military Training Camp