SUSHMA ANAND AKOJU

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ABOUT ME

I am interested in working on research in Reasoning in Natural Language Processing as an AI task.

WORK EXPERIENCE AT ACADEMIA

University of Colorado Boulder | Teaching Assistant for MSBC 5190 Artificial Intelligence, Prof. Liu | Oct 2021 - April 2022 | USA
- To design the Deep Neural Network homeworks, to help students towards programming and concept-to-implementation related questions, assignment evaluation, conducting recitations and working on course content creation tasks and working with Prof. Liu Liu.

University of Colorado Boulder| Teaching Assistant for Machine Learning in Python for Prof. Rui Zhang | Aug 2021 - Dec 2021 | USA
- To help students towards Python programming and concept-to-implementation related questions, assignment evaluation, conducting recitations working with Prof. Rui Zhang.

Carnegie Mellon University| Research Programmer/Engineer, Prof. Jessica Hodgins group, Robotics Institute | Nov 2020 – June 2021 | USA

- The project is under non-disclosure. Abstract summary of the role and responsibilities is to help and support researchers, team with implementation of software modules on-need basis while learning the task, algorithms as needed for the programming, engineering tasks during various phases of research work.

Carnegie Mellon University| Research Programmer Analyst, Prof. Barnabas Poczos's team, Machine Learning Dept.| Feb 2020 – Oct 2020 | USA

- Implemented machine learning algorithms (Random forest regression, Gaussian process regression, Lasso regression, Hierarchical Machine Learning algorithms) in Python using Flask Api using Apache Spark and Hadoop.
- Implemented a parser for polynomial equations as text inputs. Developed user interface that allow non-expert users to build data models.

Carnegie Mellon University| Research Programmer, Prof. Ziv Bar Joseph's Team, Computational Biology Dept.| Mar 2019 – Jan 2020 | USA
- Built a data portal web prototype with data visualization and analysis for HuBMAP.
- Studied and analyzed methods for colocalization in Mass Spectrometry. Implemented scripts to run a data analysis for Imaging Mass Spectrometry with segmentation using Auto Fluorescence Microscopy.

Carnegie Mellon University| Research Programmer, Prof. Tom Mitchell's and Prof. Justine Cassell's InMind team, Machine Learning Dept. | Mar 2016 - Mar 2019 | USA
- Maintained and developed enhancements to a proof-of-concept Android-based middleware layer as well as a Java framework to support multiple users for Project InMind.
- Contributed to enhancements and programming support to the research project called Socially Aware Robotic Assistant (SARA) which was demoed at the World Economic Forum and SIGDIAL conferences.
- I learnt about current works in cognitive architectures, recent works in machine learning and Natural Language Processing, research work in Never ending learning architectures.

University Of Pittsburgh | Lead Developer Intern, Prof. Jonathan Pearlmann's team | Mar 2015 - Dec 2015 | USA
- Designed and developed Android applications that interact by using RESTful web services in Java, Android SDK.
- Developed website for monitoring patients in hospital wards that use E-scale. Developed a website for a peer-to-peer review by students,
- Led a four member team in designing the app and website. Performed end to end testing and documentation.

Temple University | Teaching/Lab Assistant, Prof. Justin Shi's team | Aug 2014 - Dec 2014 | USA
- Web Programming Techniques course, taught by Prof. Justin Shi, Temple University for an Undergraduate class of 45 students.

IT WORK EXPERIENCE

Infosys Technologies| Project Manager at PMO | Oct 2012 - Jul 2014 | India
- Trained a team on Windows Powershell scripting.
- Was an Interview panelist for Windows Administration and SQL Server Administration.
- Supported staffing, recruitment, training and orientation for a new project team of about 300+ people.

Infosys Technologies| Technology Lead | Dec 2009 - Oct 2012 | India
- Automated 65 % security patch deployment process using Powershell and VB scripts on mission critical application servers.
- Maintained and analyzed issues on failover clusters, load balancing setup, servers' health in compliance with service level agreements. Designed and presented security patching solutions for RFPs.

Siemens Information Systems Limited | Associate Consultant | Mar 2008 - Dec 2009 | India
- Led a team in developing a prototype and website for a management dashboard. Planned, designed, developed, tested, fixed bugs, documented a prototyped website using a service oriented architecture, Oracle 11g. Implemented localization support.

Wipro Technologies | Senior Software Engineer | May 2004 - Mar 2008 | India
- Function Test automation for web services requests. Performed End to end testing. Participated in orientation activities in Ericsson, Brea, CA, USA. Designed and implemented new features.
- Configured hard and soft PBX and MX-One Communication Organizer Suite of applications and prepared documentation.

EDUCATION

University of Colorado Boulder | Master of Science in Computational Science | Aug 2021 - present | Boulder, Colorado

University of Pittsburgh | Master of Science in Information Science and Technology | Aug 2014 - Dec 2015 | Pittsburgh, PA | GPA: 3.7

Hyderabad Central University of Distance Education | Masters (Postgraduate diploma) in Psychology and Forensic | Sciences Jan 2011- Oct 2012 | India

AP College of Journalism | Certificate Diploma in Journalism | Spring 2006 - Dec 2007 | India

G. Narayanamma Institute of Technology and Sciences for Girls, affiliated JNTU | Bachelor of Technology in Computer Science Engineering | Dec 1999 - May 2003 | India

SKILLS SUMMARY

PROGRAMMING
Python | C++

FRAMEWORKS:
NumPy | SciPy | TensorFlow | Pandas | Keras | Electron | Flask

TOPICS:
Neural Models | Reasoning in AI | Natural Language Processing

SPOKEN & WRITTEN
English (fluent) | French (beginner)

OPERATING SYSTEMS:
Linux | macOS | Windows

CERTIFICATIONS
• Dale Carnegie's High Impact Presentation.