Abhinav Agarwal

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EDUCATION

Manipal Institute of Technology   Manipal, India
B.Tech. Information Technology   *July 2017 – July 2021*

INDUSTRY EXPERIENCE

Grader & Peer Facilitator   September 2021 – March 2022
University of Washington (Remote)   *Bothell, WA*
- Meticulously graded 1̃0 assignments for Cloud Computing and Computer Organization with 3̃0 submissions each
- Assignment evaluation involved executing programs in various environments and in different configurations
- Utilized technologies like Microsoft Azure, Amazon AWS and Windows Subsystem for Linux (WSL)

Software Development Engineer (SDE) Intern   Feb. 2021 – July 2021
ICICI Lombard GIC Ltd.   *Mumbai, IN*
- Primarily worked on migrating a very large production database from MS SQL to Oracle due to business needs
- The migration process involved migrating 25 tables, 35 procedures and 5000 rows of data
- Assisted in solving everyday issues about 5 production applications such as debugging C# APIs using Postman

PUBLICATIONS

Dynamic Identification of Learning Styles in MOOC Environment Using Ontology Based Browser Extension
| *International Journal of Emerging Technologies in Learning (iJET)*   June 2021   .

- * Developed & Published a **Chrome browser extension that scrapes usage data from MOOC platforms**
- * Built using **NodeJS running on Google Cloud AppEngine. Converts parsed JSON data into SQL for storage**
- * Developed **Python scripts to generate final recommendations based on the data collected above**

Natural language query formalization to SPARQL for querying knowledge bases using Rasa
| *Progress in Artificial Intelligence*   December 2021

- * Designed an NLP-based conversational AI agent (chatbot) using RASA NLU and Python to query OWL ontologies. Converts plain English language queries into SPARQL queries.
- * Built scripts to use RASA's internal testing suite and achieved up to 97% keyword accuracy.

PROJECTS

Electronic Assessment System | *NodeJS, NGINX, MySQL, Metro UI, AJAX*   August 2019
- * Developed an online assessment system from scratch as per the custom requirements of my instructors.
- * Implemented over 30 requested features ranging from question types to invigilation options.
- * Designed to effortlessly scale up to handle up to 500 simultaneous tests by students
- * Has a separate portal for both the instructors and students. Supports multiple teachers, subjects and students.

Portfolio Website | *Culmination of my System Admin Skills*   June 2021

- * Published a portfolio website using **Gatsby/React.js on GitHub Pages**
- * Deployed a VM on Oracle Cloud with 4 ARM vCPUs and 24 GB RAM for hosting live demos.
- * Installed Ubuntu, Node, Nginx, PM2, Mayavi, and NoMachine in an AARCH64 environment.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, C#, JavaScript, HTML/CSS, MATLAB
Frameworks: Node.js, Nginx, Tensorflow, Pytorch, MySQL
Developer Tools: Git, Bash, Google Cloud Platform, Microsoft Azure, VS Code, Visual Studio
Cloud Platforms: Microsoft Azure, Amazon AWS, Google Cloud and Oracle