

Abhinav Agarwal

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EDUCATION

University of Washington

Bothell, WA

Studied: High Performance Computing, Evidence Based Design, and Evaluating Software Design Sep. 2021 – March 2022

Manipal Institute of Technology

Manipal, India

B.Tech. Information Technology

July 2017 – July 2021

INDUSTRY EXPERIENCE

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.

CERTIFICATIONS

Business Foundations & Business Analytics Specialization | *Wharton School of Business (online)*

Deep Learning Specialization | *deeplearning.ai*

Data Science Specialization | *Johns Hopkins University (online)*

Machine Learning for Trading | *Google Cloud, New York Institute of Finance*

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