Rohan Poreddy

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EDUCATION

Kent State University   Kent, OH
Masters in Computer Science   *Aug 2019 – May 2021*

Jawaharlal Nehru Technological University   Hyderabad, Telangana, India
Bachelors in Computer Science   *Aug 2014 – May 2018*

WORK EXPERIENCE

Student Application Developer   March 2020 – May 2021
Kent State University   *Kent, OH*

- Had strong understanding of different cloud platforms **AWS**, **Google Cloud Platform**, **Microsoft Azure** etc.
- Worked on **Docker Containers**, developed a docker image of **LAMP** stack for **5** team members in team and Had experience on Docker configuration files, have knowledge on writing the rules and semantics in it.
- Had experience on Docker configuration files, have knowledge on writing the rules and semantics in it.
- Gained experience in developing **prod, dev, and local webpages** for the university, **5** others guided me.
- Computed **QA testing** which includes **Automation testing** and **manual testing** of **100's** of webpages and responds to escalated issues in **JIRA** and ensured immediate solution.
- Had strong understanding on **CI/CD pipelines**. Worked on **Jenkins**, configuration of **Jenkins Server** and created **Pipeline Scripts**.
- Used **Blue-Ocean Plugin** for GUI for the project.
- Performs **Security scan** for the latest code promo and update the **20%** commits in **JIRA** and improve product functionality and extend performance.
- Experienced on **Web scrapper tool** and coded a image extraction module to extract **1000's** of images.
- Troubleshooted university **sitemap.xml** pages to find the most crawling webpages which throwing errors. Minimized errors to less than **1%** and worked on **htaccess files** and **wildcards**.
- Worked on **htacess files**, experienced in working on **wildcards** and redirecting other page urls.

Teaching Assistant   Jan. 2021 – May 2021
Kent State University - Dept of Computer Science   *Kent, OH*

- Evaluated Students performance on **HIC** coursework, There are **42** undergrad students in this course.
- Explained topics on **Usability and Heuristics** of **user interface**, interacted with serval students.

Programmer Analyst   Dec. 2018 – July 2019
Cognizant Technologies Solution   *Chennai, Tamil Nadu, India*

- Played with **MongoDB** and **Node.js**, created NoSQL databases using node.js, and implemented simple **CRUD** applications.
- Developed a **To-do list** application integrating **MongoDB** with **Flask - python framework**, and hosted the application on pythonanywhere.com
- Used **Git** to built projects and store them in **Github repositiory**. Had strong understanding on manipulating commits and revert back them.
- Had some understanding on **GraphQL**, wrote run-time queries for API's.
- Developed logic flowcharts and diagrams to use in program coding workflow planning
- Did some interesting projects on **React**, migrated some modules of the Drupal codebase to react as per requirement from the client.
- Collaborated with **2-3 clients** in maintaining work environment and handle the tickets if any issue escalated
- Conducted KT sessions for **5** trainee employees' for placing in different projects
- Worked extensively on **HTML5**, **CSS**,**Bootstrap framework**, **Angular Components**, **JQuery**, etc for website UI.

Projects

D3 Visualizations | *D3, Javascript, DOM*   *Project Link* | Spring 2019
- Conceptualized 3 visualizations for a dataset & implemented the online visualization system with **interactions**
- Implemented the web-based visualization system with **interactions**

Raytracer Framework | *C++, Phong Shading, Geometric Transformation*   *Github Link* | Fall 2020
- Created a ray tracer framework using **C++** and validated a shading function using **Phong shading Algorithm**.
- Implemented the local shading function with **Phong shading**

MSI cache coherence protocol simulator | *C++, MSI architecture, cache processors*   *Github Link* | Fall 2020
- Redesigned **60%** of **MSI protocol** in **C++** by analysing architecture and implemented functionality of protocol.
- Developed the functionality of the protocol and its state transistions

Smoothing techniques on 2D images | *C++, OpenCV, visual studio*   *Github Link* | Fall 2020
- Designed **4-5 smoothing filters** on 2D images like **Gaussian filter, Average filter and edge detection**, Used **OpenCV library** and **visual studio community** to get the desired outputs.
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Advance Home security System | *IOT, python, Raspberry PI, Image processing techniques*   Fall 2018
- Implemented home security system using **IOT** and image processing techniques
- Using **Raspberry Pi** and **Arduino micro-controller**, implement a face recognition module to detect the intruders and sent an alert message to authorized user
- Tested with Different faces, applied Image processing algorithm to form data sets and rematch with the authorized users

Basic Chat Module | *Socket.io, Python*   *Github Link* | Fall 2018
- Integrated **sockets.io**, developed a simple chat module in **Python** Programming
- Developed a simple chat module in **Python** Programming

Technical Skills

Languages: c++, JavaScript, HTML/CSS, PHP, python, Java
Databases: mysql, mongodb
Frameworks: React, Angular, Node.js, Flask, JQuery, Bootstrap
Developer Tools: Git, Docker, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, PHP storm, Jenkins

Key Courses Undertaken

| Web Programming | Computer Networks | Data Structures and Algorithms |
| Bigdata Analysis | Design and Analysis of Algorithms | Machine Learning |