

MANISH KUMAR MAHATO

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Education

UNIVERSITY OF ENGINEERING AND TECHNOLOGY

Bachelor of Electrical Engineering

Lahore, Pakistan

2018-2022

Professional Experience

GOSAAS LABS

Lahore, Pakistan

A software company that works on IT services like full stack/cloud-native, integration, DevOps, AI/NLP, etc and IT consulting

Software Engineer: January 2022 – Present

- *Learning:* Completed courses on Javascript, ReactJS, Linux, and git which provided in-depth knowledge for developing basic as well as advanced concepts
- *Skills development:* Developed skills on different packages such as Redux & package manager npm
- *Project Assignment:* Made React apps such as Dice game, youtube searcher, location finder, etc

AMAL ACADEMY

Lahore, Pakistan

Education startup funded by Stanford University that teaches professional skills to students and corporations

Career-Prep Fellow: November 2021 – February 2022

- *Communication:* Competed in a pool of around 5000+ applications consisting of written application and interview process for selection in 3-months long Fellowship funded by Stanford University
- *Skills development:* Utilized 150 hours for developing soft skills (e.g. problem-solving, business writing, teamwork, etc.) that will help me be being a better version of myself
- *Leadership:* Lead a group of 5 for Mega-Project, a 2-months long activity focused on Financial literacy awareness among children (age: 6-14) that helped boost my confidence and leadership skills

AFINITI SOFTWARE SOLUTIONS

Lahore, Pakistan

Afiniti transforms the way humans interact by applying AI to discover, predict and affect patterns of interpersonal behavior

Project Trainee: July 2020 – August 2020

- *Research:* Worked on testing and finding bugs in the provided application
- *Reliability:* Gathered results of overall bugs found while testing and reported continuously

Academic Experience

FALL DETECTION AND HIP PROTECTION SYSTEM FOR ELDERLY PEOPLE

Lahore, Pakistan

It is a Machine Learning based fall detection system that will be embedded into a belt for hip protection

Final Year Project Group Leader: September 2021– Present

- *Teamwork:* Coordinated with a team of 3 members to carry out the project
- *Leadership:* Chaired team to carry out the research work and complete the project
- *Effective study skills:* Studied every research paper on Fall Detection on IEEE
- *Creativity:* Designed the belt using different mechanical techniques for inflation of airbags
- *Critical thinking:* Tested the model on a routine basis, analyzed faults, and recovered them accordingly
- *Business communication:* Reported the supervisor weekly via emails and personal meetings

PIPELINED AND SINGLE-CYCLE RISC-V PROCESSOR

Lahore, Pakistan

It is a Computer Architecture Verilog-based project which supports all kinds of RISC-V instructions. CSRs are configured and Hazards are managed as well. It's a completely tested RISC-V pipelined processor.

Semester Project: September 2021– November 2021

- *Research skills:* Studied 50+ research papers to develop the knowledge required to design the processor
- *Creativity:* Combined techniques used by different designers to make a better and new design
- *Critical thinking:* Tested the model on each step of data flow and how each part of the processor was working
- *Communication:* Reported to the professor about the development frequently and got it checked on every stage

ONLINE MEDICINE SHOP

Lahore, Pakistan

It is a Database Management System MySQL and Django-based project which is being developed as an online medicine selling website.

Semester Project: March 2021– Present

- *Skills Development:* Learning MySQL and Django side by side for a better understanding of database management on a website
- *Creativity:* Developed unique Enhanced Entity Relationship diagrams for deployment in the project
- *Research:* Searched 100+ similar projects and their working for a better idea to make our project faster and more feasible to deploy as a real-world medicine website

Computer Skills

WEB DEVELOPMENT

- *Languages & Scripts:* JavaScript, HTML5, CSS3, JSX, Python
- *Libraries:* ReactJS, Redux, Django
- *Package Managers:* npm, yarn

MACHINE LEARNING & AI

- *Languages:* Python
- *Libraries:* TensorFlow, TensorFlow2, PyTorch, OpenCV, NumPy, Matplotlib

DATABASE

- MySQL
- ER, EER, Relational Schemas, Normalization

OTHER SKILLS

- C, ARM, x86 & RISC-V Assembly, Verilog HDL, LaTeX, MATLAB, Linux, Git, and GitHub
- OrCAD, MS office, Vivado, TIVA-C, RaspberryPi

CERTIFICATIONS

- JavaScript Essential Training (LinkedIn Learning, 2022)
- Modern React With Redux (Udemy, 2022)
- Deep Learning and Neural Networks (Coursera, 2021)
- Structuring Machine Learning Projects (Coursera, 2021)
- Improving Deep Neural Networks (Coursera, 2021)

Public Projects

GitHub

<https://github.com/manish257>

Extracurricular & Volunteer Experience

SAKURA SCIENCE CLUB

Tokyo, Japan

Japan-Asia Youth exchange program led the group for cultural exchange through various activities and programs

- *Member:* Participated in various cultural programs in Japan, represented Nepal in various club programs for 6 years (2016-Present)

Honors and Awards

PTAP SCHOLARSHIP

Lahore, Pakistan

- Received full merit-based academic scholarship from Pakistan Technical Assistance Program (PTAP) from EAD Pakistan and Ministry of Education in Nepal (2018-2022)

CHIEF DISTRICT OFFICER AWARD

Makawanpur, Nepal

- Awarded Gold Medal for securing highest marks at School Leaving Certificate(SLC) level in entire district (2016)

Additional

- *Interests:* Podcasts, Sci-Fi Movies, Football, eNewspaper
- *Language:* English, Nepali, Urdu, Maithili