John Doe

Generalist Software Engineer

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SUMMARY

My strong suits are Python development and machine (deep) learning in both industry and academia. Over the next few years, I intend to develop as a generalist software engineer. For that, I have learned a bit more of modern C++, frontend technologies, data engineering, DevOps, software architecture, and even product management as well.

WORK

Miscellaneous / Jul 2020 - Aug 2021

Worked a few short stints at different organizations, including at my own non-profit startup. Focused on AI, DevOps, MLOps, and a bit of Agile Project Management.

Jenkins | Terraform | AWS | GCP | DVC + CML | GatsbyJs | ClickUp

ML Engineer / Mar 2019 - May 2020

Smart Cart Co - Delaware, US

Researched novel approaches for large scale, yet fine grained visual classification. Enhanced code readability and performance by redesigning and implementing it in modules.

Python | C++ | GStreamer | DeepStream | CNN

Python Developer / Mar 2018 - Feb 2019

The LHC - Geneva, CH

Worked on backend development in Python and on machine learning methods for textual data - from research to production.

Python | Flask | PyTest | FastAI | PyTorch | scikit-learn | CNN | LSTM

Summer Student / Jun 2017 - Sep 2017

The LHC - Geneva, CH

Configured and simulated runs of different detector-particle beam interactions. Added a more robust track reconstruction algorithm (General Broken Lines) to the Proteus framework

SKILLS

Languages: Python, C++, C, JavaScript, HTML, CSS, Bash
Tools: PyTorch, OpenCV, NumPy, Pandas, Flask, PyTest, MQTT, Docker, Jenkins, Terraform
Other: CI/CD, Version Control, Web, Data science and ML, Cloud computing

OTHER PROJECTS

- **Market research** and **literature review** of trends in digital mental healthcare.
- Design of a **pilot study** to study a semi-novel intervention in mental healthcare.
- Facilitation of agile implementation in teams - **SCRUM, Kanban**
- Fish detection and classification - **Probabilistic Modeling, CNN**.
- People counting in dense crowd images using sparse head detections - **CNN, SVM**.
- Vehicle detection, classification, and tracking - **CNN, openCV**.
- Simultaneous Localization and Mapping (SLAM) on a robotic wheelchair - **ROS**

EDUCATION

Robotics and AI - 4.00/4.00 - 2018

Master, The University - Islamabad, PK
Thesis m2caiSeg: Semantic Segmentation of Laparoscopic Images using Convolutional Neural Networks

Mechanical Engineering - 3.58/4.00 - 2014

Bachelor, The University - Islamabad, PK
Thesis Design of an instrument for cam profile measurement

AWARDS

- My startup was awarded a top 5 position at the the 2020 Social Startup competition.
- Full scholarship and Gold Medal in Master studies.
- Selected as a volunteer at that amazing conference in 2018 held in Harrapa.

ACTIVITIES / INTERESTS

Proactive about learning diverse things and happy to discuss those. Favorite physical activities are cycling and hiking.