

Sharif Ullah

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EDUCATION

- **Chittagong University of Engineering & Technology (CUET)** Chittagong, Bangladesh
B.Sc in Computer Science & Engineering ; CGPA: 3.46 March 2014 - Dec. 2018
Courses: Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases

SKILLS SUMMARY

- **Languages:** Python, C++,Java, JavaScript, SQL
- **Frameworks:** Scikit-learn, NLTK, SpaCy, TensorFlow, PyTorch, Keras, Django,Java Spring Boot,Theamleaf, Flask, NodeJS, Odoo, FastAPI, OpenCV, OpenVINO,YOLO,OpenPose,DeepFace
- **Tools:** Docker, GIT, PostgreSQL, MySQL, SQLite, Travis CI
- **Platforms:** Linux, Web, Windows, AWS, GCP
- **Soft Skills:** Leadership, Writing, Public Speaking, Time Management

RESEARCH EXPERIENCE

- **Multi-Modal Based Autism Spectrum Disorder (ASD):** Conducting research on using pose estimation, emotion, audio, and video techniques to identify behavioral patterns associated with Autism Spectrum Disorder.
 - Currently training an emotion detection model using ResNet50 to classify emotional states from facial expressions.
 - Developing a video classification model using pose video data to differentiate between ASD and non-ASD behaviors.
 - Training a voice classification model to analyze behavioral patterns from voice data.
- **Human Activity Recognition:** Developing models to analyze human activities in various environments using computer vision techniques.

EXPERIENCE

Bangladesh House Building Finance Corporation Dhaka,Bangladesh
Assistant Programmer Feb 2024 - Present

- **Loan Processing APP:** Developing different module of a fintech solution.
- **Technology:** Java JEE, Spring Boot, Theamleaf, HTML, CSS, JS, Oracle Cloud

Peek AI Ltd Remote, Freelance
Lead Developer March 2024 - Present

- **AI CCTV surveillance system:** Developing surveillance system as Desktop App and Web App using deep learning models
- **CPU Inference:** Doing rd on model for making CPU inference of the deep learning models
- **Technology:** Python(QT)Pyside, OpenVino, Flask, Ultralytics Yolov8, pose estimation, RunProd, OpenCV, OpenPose

• **Wunderman Thompson Dhaka** Dhaka, Bangladesh
Software Engineer Sept. 2022 - Feb. 2024

- **Reveal App:** Developing WundermanThompson MVP AI product- Reveal, Developing features, fixing issues, Working in ETL Process with Data Team, Preparation Dashboard using Streamlit, writing test cases, writing functionalities in nodejs python, deployment and monitoring in GCP, managing task in JIRA, backend design, DB design, UI modifications
- **ETL Pipeline for Dashboard:** Wrote functions in FastAPI, Nodejs, Deploy in cloud function, cloud run using Terraform, Prepared CI/CD pipeline using cloud build, Made data warehouse, added monitoring dashboard using Grafana
- **Data analysis Tool:** Prepared data analysis tool using streamlit
- **Micro Expression Model:** Worked with data team for building for micro expression detection deep learning model
- **Technology:** Python(Flask), FastAPI, NodeJs, MySql, HTML, CSS, GCP(Cloud function, CloudScheduler, AppEngine, Cloud Run, Cloud Build, Pub/Sub), Terraform, Grafana, CI/CD Tool, Pytest, GenAI, Deep learning, LangChain, Prompt engineering

• **BJIT Limited** Dhaka, Bangladesh
Senior Software Engineer June 2022 - Aug. 2022

- **Witz ERP:** Developed a ERP system for Japanese Software Company.
- **Technology:** Python(Odoo)HTML, CSS, PostgreSQL, AWS(EC2)

• **BJIT Limited** Dhaka, Bangladesh
Software Engineer Sept 2021 - May. 2022

- **BJIT ERP:** Developed a ERP system for BJIT Limited.

• **BJIT Limited** Dhaka Bangladesh
Software Engineer(AI) Jan 2019 - Aug. 2021

- **Platform Application:** Developed platform application for japan railway for detecting train, analyzing human activity in railway station. rail-crossing bar controlling.
- **Pose Estimation:** Developed a system for identifying people who are using phone while walking using Open-pose
- **Bengali OCR:** Developed a OCR system to convert Bengali PDF file to editable Bengali characters
- **Technology:** Python(Django), Deep learning, Computer Vision, OpenVino, C++, Numpy, Pandas, Scikit-learn

R&D PROJECTS

- **Sherlock AI**: Improving the functionalities and fixing issues of WundermanThompson AI tool.Using users emotions for preparing the data . Tech: Python, Flask, Deep Learning
- **Yoga-pose Detection** : Developed app using python Django,prepared custom data set and trained POSE NET model for detecting seven yoga pose and got 85% accuracy. Tech: Python, JavaScript, Pose-Net,Deep Learning
- **POC on Level Crossing Safety using Deep Learning (C++,Computer Vision,Deep Learning)**: Developed a POC for detecting and tracking pedestrian and vehicles near level crossing,Applied heuristics to identify potentially dangerous situations,– Selected as the best POC among multiple competitors by Japan Railways Group. Tech: Python, C++,Open-Vino Toolkit, Django,PyTorch,Image Annotation Tool,Machine Learning
- **University Ranking System (Web,Data Scraping)**: Developed app using python Django for showing ranking data of universities which we crawled from their websites . Tech: Python, Django, JavaScript,Selenium
- **Bangla OCR(Deep Learning)**: used CNN and LSTM for model training,got 81 % accuracy while training with custom data set . Tech: Python, PyTorch, Deep Learning Model,NLP

HONORS AND AWARDS

- Top Performer of BJIT Limited - 2021-22 fiscal year
- My Team was one of the TOP 20 team in CUET IUPC programming contest
- Solved 1000+ programming problem in Different online judges and participated in different programming contest
- Semester Scholarship,CUET, 2014-2018
- Primary & Junior Scholarship, Government of Bangladesh, 2005 2008

LEADERSHIP

- Managed The WITZ ERP Project
- Developed WundermanThompson MVP AI product-<https://www.wundermanthompson.com/reveal> App
- Lead a team of UI/UX engineers,AI devs for developing CCTV surveillance system