

# Bilal Khan

SOFTWARE DEVELOPER · COMPUTER SCIENCE STUDENT

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## Education

### FAST (National University of Computer and Emerging Sciences)

Jun. 2022

B.S. IN COMPUTER SCIENCE

- Courses included both Computer Science (programming, databases, artificial intelligence, and hardware) and Business (accounting, management, and logic) subjects.

### Govt. Dehli College

Jul. 2018

PRE-ENGINEERING

- Courses included Physics, Chemistry and advanced Mathematics.
- Govt. Scholarship Awardee.

## Projects

### Real-time Workout Analysis using Computer Vision

[Project Link](#)

TOOLS: PYTHON3, DEEP LEARNING, OPENCV, SOCKET PROGRAMMING, COLAB

In Progress

- Developed a web and mobile app for real-time analysis of human posture while doing an exercise using Computer Vision.
- Trained a deep learning model from scratch to detect human body key points, calculated the angles and used DTW and heuristic-based approaches to provide real-time feedback to the user.

### Face and Eye detection using OpenCV

[Project Link](#)

TOOLS: PYTHON3, OPENCV

Jul. 2021

- Developed a Python app for real-time face and eye detection using OpenCV, an open-source computer vision library.
- Used Haar Feature-based Cascade Classifiers for eye and face detection.

### IP MONKEY

[Project Link](#)

TOOLS: PYTHON3, DJANGO, HTML, CSS, API

Mar. 2021

- Developed a Python web-app for displaying IP address information with a privacy friendly UI and an ad-free experience
- This was a fun project to utilize the semester break and a small effort to learn Django :)

### Covid-19 Real time Android Tracker

[Project Link](#)

TOOLS: JAVA, ANDROID STUDIO, API

Oct. 2020

- Developed an easy-to-use android app to track the Covid-19 cases in real time globally.
- Implemented using multiple android libraries including Volley and few third party open-source APIs.

### QR-Menuu

[Project Link](#)

TOOLS: PYTHON3, FLASK, AWS S3, AWS EC2

Jan. 2021

- Qr-Menuu is a web-based application for restaurants, cafés, and shops to generate an attractive and customizable digital menu.
- The unique QR menu can be used for viewing the menu by the customers anywhere anytime.
- Implemented using Python and Flask for the back-end, AWS S3 for the cloud storage, and Bootstrap for the front-end.

### Web Scraping and Automation

[Project Link](#)

TOOLS: SELENIUM, BS4, PROXY ROTATION, CRON JOBS, AWS EC2, GOOGLE SHEETS API

Nov. 2021

- Provided web scraping and automation services as a top-rated seller on Upwork.
- Developed more than 10 automation bots for web scraping and monitoring data on different websites.

## Experience

### Freelance Full Stack Developer - Upwork

Aug. 2020 - Present

SOFTWARE DEVELOPER

- Web Automation, Web Scraping and Data mining, AWS, Full Stack Development.

### Microsoft Learn Student Ambassador

Jan. 2020 - Jun. 2022

SPEAKER

- Beta (Senior) Member.
- Organized and delivered workshops on different Microsoft technologies including Azure.

## Technical Skills

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<b>Deep Learning</b>	Tensor flow, Keras, OpenCV
<b>Back-end</b>	Flask, Django, REST API
<b>Front-end</b>	HTML5, CSS, Bootstrap
<b>Programming</b>	Node.js, Python, JAVA, C++
<b>Databases</b>	MySQL, SQLite, PostgreSQL, MongoDB
<b>Tools</b>	Google Colab, Jupyter Lab, Azure, AWS, Git, Heroku, Netlify, Homebrew, Docker