

# Abdulrahman M. Bin Zuair

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## Education

**BACHELOR OF ENGINEERING | 2023–2026(EXPECTED) | KING SAUD UNIVERSITY | GPA: 4.8**

- Major: Computer Engineering

**BACHELOR OF ENGINEERING | 2018–2023 | GEORGIA INSTITUTE OF TECHNOLOGY**

- Major: Computer Engineering

**Honors and Awards:** Kaust Gifted Student Program, ITEX silver medal, Saudi Skills Robotics gold medal.

## Experience

**RESEARCH ASSISTANT | KING SAUD UNIVERSITY | DEC 2022 – PRESENT**

- Developing different interfaces for the machine learning models produced by BigData lab at KSU. Mostly using Gradio library and Hugging Face to create demos and uploading them online.

**RESEARCH ASSISTANT | UNIVERSITY OF TEXAS AT AUSTIN | JUN 2019 – JUL 2019**

- Set up ultrasonic and infrared sensors on an Arduino microprocessor and visualized the sensor outputs for *Sensor Power Optimization Using Convolutional Neural Network*.

**RESEARCH INTERN | KING ABDULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY | JUN 2016 – JUL 2016**

- Worked on a paper titled "*Tunability of Color Temperature for Solid State Lighting by using RGV Lasers and InGaN Yellow Nanowire LED*" and presented it in a poster symposium and slide forms.

## Achievements

**HACKATHON OF MADINAH DATE SEASON| ALMADINA ALMUNAWARAH CHAMBER | SEP 2024**

- Participated as part of the BigData lab team and were awarded the grand prize. Our project is "Smart Palm Tree", an integrated AI system that helps date farmers to manage their farms by evaluating the health and yield of their trees.

**MACHINE LEARNING SPECIALIZATION| STANFORD UNIVERSITY & DEEPLARNING.AI IN PARTNERSHIP WITH COURSERA**

- Completed online 3 course specialization that covers modern machine learning concepts, including supervised learning, unsupervised learning, recommender systems, and reinforcement learning.

## Personal Projects

**POTHOLE CLASSIFICATION | TENSORFLOW**

- Developed an automated pothole classification that analyzes mp4 videos and outputs a csv file with the analysis.
- Constructed a monocular depth preceptor that takes images and outputs 3D point clouds that are used for pothole depth estimation.

**DISCORD BOT SUITE | PYTHON**

- Worked with a team of open-source developers on multiple discord bot using Discord API python library.
- Developed a sticker bot that saves images to a MySQL database with duplicate detection functionality.
- Integrated whisper API to transcribe voice chat conversations after recording it.

## Skills

### COMPUTER

- Python, Java, CSS/HTML/JavaScript, React, APIs, Excel, TensorFlow, PyTorch, Gradio.
- Blender 3D software, Adobe Photoshop, Video Editing, 3D design and animation.

### INTERPERSONAL AND COMMUNICATION

- Adaptability, Creative Problem Solving, Critical Thinking, Leadership, English fluency (IELTS 8).