

Tazkia Malik

Transforming ideas into reality through code and innovation.



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CodedGrimoire



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EDUCATION

University of Dhaka

B.Sc. in Computer Science and Engineering

Relevant Coursework: Data Structures, Algorithms, Operating Systems, Database Systems, Artificial Intelligence, Machine Learning, Computer Networks, Software Engineering

Dhaka, Bangladesh

2022 – Present

Viqarunnisa Noon School and College

High School Diploma (GPA: 5.00/5.00)

Dhaka, Bangladesh

2016 – 2021

TECHNICAL SKILLS

- **Programming Languages:** C++, Java, Python, JavaScript, SQL, TypeScript
- **Web Technologies:** React.js, Next.js, Node.js, Express.js, GraphQL
- **Databases:** MySQL, MongoDB, PostgreSQL, Redis
- **DevOps & Cloud:** Docker, Kubernetes, AWS, Google Cloud Platform
- **AI/ML Frameworks:** TensorFlow, Keras, PyTorch, Scikit-learn
- **Other Skills:** RESTful APIs, Microservices Architecture, CI/CD, Agile Methodologies

PROJECTS

Blood Donation App

Java, Android SDK, MySQL, Firebase

Developed a real-time blood donation app connecting donors with recipients. Implemented secure authentication, geolocation services, and push notifications. Utilized Firebase for real-time database and notifications, improving response time by 40%.

Women Safety App

React Native, Firebase, Google Maps API

Built a cross-platform mobile app for women's safety with real-time tracking and emergency alerts. Integrated Google Maps API for location tracking and implemented a panic button feature. Achieved 98% accuracy in location tracking and alert delivery.

AI-Powered Image Classification System

Python, TensorFlow, Keras, Flask

Developed a web-based image classification system using deep learning. Trained convolutional neural networks on a dataset of 100,000+ images, achieving 95% accuracy. Deployed the model using Flask, handling 1000+ requests per minute.

Scalable Microservices Architecture

Node.js, Express.js, Docker, Kubernetes, RabbitMQ

Designed and implemented a scalable microservices architecture for an e-commerce platform. Utilized Docker for containerization and Kubernetes for orchestration. Implemented message queues with RabbitMQ for asynchronous communication between services.

EXPERIENCE

Coding, Math, and Software Annotator & Aligner, Labelbox

Remote

June 2024 – Present

- Worked on data annotation and alignment projects in coding, mathematics, and software domains

- Specialized in SQL annotation, contributing to the improvement of database query processing models
- Annotated and aligned complex code samples exceeding 200 lines for Gemini model training, enhancing AI comprehension of extensive codebases

Annotation Specialist, SuperAnnotate

Remote

June 2021 – May 2024

- Completed over 500 annotations of coding functions, significantly contributing to the development of code generation models
- Specialized in test case fixing and optimization, enhancing the quality and efficiency of automated testing processes
- Crafted and annotated diverse writing prompts, supporting the training of natural language processing models
- Performed quality assurance on annotated datasets, ensuring high accuracy and consistency in labeling
- Collaborated on creative writing and coding-based annotation projects, improving AI understanding of various text formats and programming paradigms

ACHIEVEMENTS

- **2nd Place**, Battle of Brains Competitive Programming Competition by CSE DU (2021)
- **7th Place**, National Girls Programming Contest (2020)
- **2nd Runner-up**, Code Samurai – Dhaka City Corp Garbage Management Project (2022)

ADDITIONAL ACTIVITIES

- **Lead Organizer**, University Hackathon – Organized a 48-hour coding event with 200+ participants
- **Mentor**, Tech4Good – Mentored 20+ underprivileged youth in web development and basic programming
- **Speaker**, Local Tech Meetups – Presented on "AI in Everyday Applications" and "Scalable Web Architecture"