

# 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*

Dhaka, Bangladesh

2022 – Present

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

### 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 SOQL 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**

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- **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**

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- **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"