



# Abdullah Hassan

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**Address:** Flat-D-1, 337/1, TV Road, East Rampura, 1219, Dhaka, Bangladesh (Home)

## ABOUT ME

I love to ideate, design, and build impactful systems. Fallen in love with Java and trying to become more proficient by grasping advanced concepts through work and study. Besides that, I am always exploring new technologies and trying out different design approaches. My goal is simple. To become the best version of myself and then go beyond.

## WORK EXPERIENCE

7 JUL 2022 – CURRENT Dhaka, Bangladesh  
**SOFTWARE ENGINEER** DOHATEC NEW MEDIA

As a PKI programmer, my primary responsibility is to ideate, design, and develop PKI solutions that allow end-users to process, sign, and protect documents with the help of digital signatures.

**Business or Sector** Information and communication | **Department** Dohatec Certifying Authority |

**Email** [abdullah@dohatec.com.bd](mailto:abdullah@dohatec.com.bd) | **Website** <http://dohatec-ca.com.bd>

## EDUCATION AND TRAINING

1 JAN 2018 – 22 MAY 2022 Gazipur, Bangladesh  
**BACHELOR OF SCIENCE IN COMPUTER SCIENCE AND ENGINEERING** Islamic University of Technology (IUT-OIC)

Structured Programming, Object Oriented Programming, Algorithms, Data Structures, Relational Database Management System (RDBMS), Cryptography, Networking, Internet Protocols, Machine Learning, Algorithm Engineering, Design Pattern

**Website** <https://www.iutoic-dhaka.edu/> | **Field of study** Computer Science and Engineering | **Final grade** CGPA 3.27 out of 4.00 |

**Number of credits** 181.75 | **Thesis** 3D Object Detection with Stereo Vision and Transformers

## PROJECTS

30 APR 2024 – CURRENT  
**Dohatec e-Sign**

Architected and spearheaded the development of "Dohatec eSign," a microservice-based web application for secure and convenient digital signing. Designed the system architecture encompassing six microservices, including a Spring Cloud Gateway for centralized communication. Developed three core services: Certificate Generation, Sign Service, and Subscription Management. Implemented robust monitoring and logging using the Grafana, Loki, and Prometheus stack. This solution automates certificate issuance with NID verification via a mobile app, enabling ubiquitous document signing. Further enhanced user experience with QR code-based document verification through the mobile app.

**Link** <https://e-sign.com.bd>

31 MAY 2023 – 8 APR 2024  
**Dohatec Digital Signature Tool 2**

Developed a secure digital document signing application for RAJUK (Capital Development Authority) using Java Swing, Bouncycastle, and ICEpdf, enabling officers, engineers, and architects to efficiently sign documents electronically with Gemalto Crypto USB dongles, streamlining workflows and enhancing security.

1 JAN 2021 – 30 APR 2022

## 3D Object Detection with Stereo Vision and Transformers

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Final year research project conducted under the supervision of Professor Dr. Kamrul Hasan and Dr. Hasan Mahmud on the application of transformer model in object detection and 3D co-ordinate superimposition.

### SKILLS

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#### Skills

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##### Programming Skills

- Implemented data structures and algorithms with **Java**
- Developed **REST** and **SOAP API** endpoints with **Springboot** framework
- Secured applications with **Spring Security, JWT** and **OAuth2** standard
- Developed **microservice** gateway using **Spring Cloud**
- Developed **cryptography** solutions using **Bouncycastle** and **Apache Santuario**
- Designed user facing applications with **Angular**
- Used various design frameworks including but not limited to Angular **Material, Tailwind CSS, Bootstrap, Bulma** etc.
- Wrote unit tests with **JUnit 5** and **Mockito**

##### Database Skills

- Wrote structured **SQL** queries in **Postgresql**
- Managed **MS SQL Server 8** for a legacy project
- Also knowledgeable in **MySQL, Oracle** database
- Developed a personal project in **MongoDB**

##### System Administration Skills

- Proficient in **Linux** (Fedora, RockyLinux, CentOS etc.)
- Deployed Java applications with multiple sessions managed by **Tmux**
- Basic network configuration

##### Graphics Skills

- Vector (logo, icon, banner etc.) design using **Inkscape**
- UI/UX design with **Figma**
- Graphics and presentation design on **Canva**
- Photo editing using **Gimp, Adobe Lightroom** and **Snapseed**

##### Others

- Microsoft **Office**
- Version controlling through **Gitlab**
- Favorite IDE, **Intellij Idea** and **VS Code**

### ORGANISATIONAL SKILLS

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SEP 2024

#### Workshop on the use of Digital Certificates and Digital Signatures in ECPS at IAB

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Successfully conducted a workshop where Institute of Architects in Bangladesh (IAB) staff members were trained on how to obtain a Digital Certificate from DohatecCA and use the Certificate to apply Digital Signatures on engineering documents. This workshop was intended to make staff members ready for assisting architects in submitting documents in the Electronic Construction Permitting System (ECPS) operated by Capital Development Authority (RAJUK).

### CONFERENCES AND SEMINARS

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27 NOV 2023 OIC-CERT Technical Workshop 2023

#### Data Protection in Cybersecurity: A Critical Imperative

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A workshop on the laws and regulations for securing data in Key Public Infrastructures (KPI).

10 JUN 2023 Pan Pacific Sonargaon, Dhaka

#### Seminar on Public Key Infrastructure

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A seminar organized by Establishment of CA Monitoring Systems and Security Project for creating awareness about PKI and networking opportunity for PKI service providers.

## ● **CERTIFICATIONS AND TRAININGS**

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30 MAY 2023

### **Industrial Training Program at Battery Low Interactive**

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Industrial training on game development using the Unity game engine.

14 APR 2021

### **NDG Linux Unhatched**

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An online course offered by Network Development Group (NDG) and Cisco on Linux. Covered topics such as Linux Terminal Commands, File Management, Regular Expressions etc.

7 MAR 2021

### **Git and Github Essentials**

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An online course offered by Amigoscode on the fundamental commands to get started with Git and Github.

6 OCT 2020

### **AWS Fundamentals: Going Cloud-Native**

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Basic understanding of Amazon Web Services. Covered concepts such as Elastic Compute (EC2), Simple Storage Service (S3), Network Configuration, Load Balancing etc. Verify at [coursera.org/verify/BMKS7Q375GVF](https://coursera.org/verify/BMKS7Q375GVF)

## ● **INTERNATIONAL LANGUAGE TEST**

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6 FEB 2024

### **IELTS**

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**TRF Number:** 23BD500999HASA050A

**Overall:** 8.0

**Listening:** 8.5

**Reading:** 9.0

**Writing:** 6.5

**Speaking:** 7.5

## ● **HOBBIES AND INTERESTS**

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### **Reading and Writing**

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I love to read books on different topics both professionally and as a leisure activity. Sometimes I write about the topics I like on my website.

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*Thank you for going through my resume. I would love to discuss more about my skills and experiences if necessary.*