



Abdullah Hassan

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

Address: Dohatec New Media, 43, Purana Paltan Line, Paltan, 1000, Dhaka, Bangladesh (Work)

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 | **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 eSign

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.

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

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

Skills

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 application with **Angular**
- Used various design frameworks including but not limited to Angular **Material, Tailwind CSS, Bootstrap, Bulma** etc.

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

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

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

27 NOV 2023 – 27 NOV 2023 OIC-CERT Technical Workshop 2023

Data Protection in Cybersecurity: A Critical Imperative

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

10 JUN 2023 – 10 JUN 2023 Pan Pacific Sonargaon, Dhaka

Seminar on Public Key Infrastructure

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

● **INTERNATIONAL LANGUAGE TEST**

6 FEB 2024 – 6 FEB 2024

IELTS

TRF Number: 23BD500999HASA050A

Overall: 8.0

Listening: 8.5

Reading: 9.0

Writing: 6.5

Speaking: 7.5

● **HOBBIES AND INTERESTS**

Reading and Writing

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.