







INDRONIL BHATTACHARJEE

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OBJECTIVE

I would like to build up my career in computer engineering profession that offers a challenging career & requires developed knowledge on recent technologies. In the era of information technology, I consider computer engineering a noble profession which will benefit me a lot. I dream to be a Software Engineer.

EDUCATIONAL BACKGROUND

2016 – 2020:	Bachelor of Science in Engineering (B. Sc. Eng.) Computer Science and Engineering Khulna University of Engineering & Technology, Khulna Graduating in 2020 CGPA: 3.17 (Out of 4.00) (Ongoing) Key Courses: Computer Basics and Programming, Object Oriented Programming, Discrete Mathematics, Data Structures, Algorithm Analysis & Design, Database Systems, Software Engineering and Information Systems, Microprocessors and Microcontrollers, Numerical Methods, Web Programming, Theory of Computation, Peripherals and Interfacing, Operating Systems, Compiler Design, Computer Networks, Machine Learning, Artificial Intelligence, Computer and Network Security, Computer Graphics, Digital System Design, Data Mining, Natural Language Processing, Biomedical Engineering.
2013 – 2015:	Higher Secondary Certificate (HSC) Science Jhenidah Cadet College, Jhenidah Board of Intermediate and Secondary Education, Jessore GPA: 5.00 (Out of 5.00)
2011 – 2013:	Secondary School Certificate (SSC) Science Jhenidah Cadet College, Jhenidah Board of Intermediate and Secondary Education, Jessore GPA: 5.00 (Out of 5.00)

TECHNICAL SKILLS

- **Programming Language** : C, C++, Java, C#, Python, Assembly
- **Web** : ASP.NET, JavaScript, HTML, CSS, AJAX
- **Database** : SQL, PL/SQL, MySQL, Microsoft SQL Server
- **IDE** : Eclipse, Code Blocks, Oracle10g, Android Studio, Microsoft Visual Studio, Python IDLE, Spyder
- **Simulation Tools** : Packet Tracer
- **Version Control System** : Git
- **Operating System** : Windows, Ubuntu, Mac OS

UNDERGRADUATE THESIS

- **Diabetic Retinopathy Classification from Retinal Images using Machine Learning Algorithms**
(February 2019 – Ongoing)

Research Area: Machine Learning, Image Processing.

Supervised by: Mr. Al-Mahmud
Assistant Professor
Department of CSE, KUET.

Project repository link: github.com/Indronil-Prince/Thesis

PROJECTS

- **Artificial Intelligence Project:** (February 2019 – June 2019)

Nine Men's Morris

This is an Artificial Intelligence based game in which a human will play against an artificially intelligent computer. The game is developed using the game theory. In this project I have used the concepts of Minimax theorem and Alpha-Beta Pruning. Python programming language is used for this project.

Project repository link: github.com/Indronil-Prince/Artificial-Intelligence-Project

- **Computer and Network Security Project:** (February 2019 – June 2019)

File encryption and decryption using RSA Algorithm and Prime Number Cipher

These are file encryption and decryption systems using RSA algorithm and Prime Number Cipher. RSA and Prime Number Cipher are asymmetric and symmetric cryptosystems respectively. The project is developed by using C language.

Project repository link: github.com/Indronil-Prince/Computer-and-Network-Security-Project

- **System Development Project:** (August 2018 – January 2019)

Online Business Platform

This is a desktop based E-commerce application for Windows platform. In this project I have used C#, Windows Forms, Firebase Realtime Database, Firebase Storage and Microsoft Visual Studio.

Project repository link: github.com/Indronil-Prince/System-Development-Project

- **Operating System Project:** (August 2018 – December 2018)

Indronil OS

This is a custom mini operating system. In this project I have used Shell programming, C, C++ and Assembly Language.

Project repository link: github.com/Indronil-Prince/Operating-Systems-Project

- **Compiler Design Project:** (August 2018 – December 2018)

Custom Compiler

This is a simple compiler for customized language. In this project I have used C, Flex and Bison Parser.

Project repository link: github.com/Indronil-Prince/Compiler-Design-Project

- **iOS Application Development Project:** (August 2018 – December 2018)

E-Dictionary

This is an online dictionary application for iOS devices. In this project I have used Swift, XCode, back4app Storage, Django REST framework and Definition API. This application is developed in Mac OS.

Project repository link: github.com/Indronil-Prince/iOS-App-Development-Project

- **Database Systems Project:** (February 2018 – July 2018)

Football Tournament Management System

This is database management system for managing a football tournament. In this project I have used SQL, PL/SQL and Toad Data Modeler.

Project repository link: github.com/Indronil-Prince/Database-Project

- **Web Programming Project:** (February 2018 – July 2018)

Sports Shop Online

This is a website for shopping sports goods online. In this project I have used C#, ASP.NET, Microsoft SQL Server, HTML, CSS and JavaScript.

Project repository link: github.com/Indronil-Prince/Web-Programming-Project

- **Peripherals and Interfacing Project:** (February 2018 – July 2018)

Gas Leakage Detector with SMS Alert and Sound Alarm

This is an apparatus which detects gas leakage and alerts user by ringing alarm and sending an alert SMS. In this project I have used Arduino Uno, GSM Module (SIM 900A), MQ5 Gas Sensor, 16x2 LCD Display, Transistor (2N2222), Potentiometer, Buzzer and Bread Board.

Project repository link: github.com/Indronil-Prince/Peripherals-and-Interfacing-Project

- **Android Application Development Project:** (September 2017 – January 2018)

Live Soccer

This is an android application which will give updates of live matches of European football. In this project I have used Java, Android Studio, Livescore API and JSON parsing.

Project repository link: github.com/Indronil-Prince/Android-Project

AREA OF INTERESTS

- Machine learning
- Natural Language Processing
- Problem Solving
- Web Development

PROGRAMMING ACTIVITIES

Problems Solved	:	300 Problems in different online judges Link: stopstalk.com/user/profile/indronil_prince
Codeforces	:	Handle: Indronil_Prince Link: codeforces.com/profile/Indronil_Prince
Uva Online Judge	:	Handle: Indronil Prince (Indronil_105) Link: uhunt.onlinejudge.org/id/845504
HackerRank	:	Handle: Indronil Prince (@Indronil_105) Link: hackerrank.com/indronil_prince

EXTRA CURRICULUR ACTIVITIES

- Participated in British Council's Active Citizens Youth Leadership Training.
- Currently working in a Social Action Project with British Council and Rupantar.
- Participating in different sports like Football, Cricket, Basketball and Table Tennis.

ACHIEVEMENTS

- Participated in Samsung R&D App Idea Contest 2018.
- Participated in the ACM ICPC Dhaka Regional 2016 and 2017 Online Preliminary Contest.
- Participated in the Intra KUET Programming Contest 2016 and 2019.
- Achieved Higher Secondary Merit Scholarship in 2015.
- Achieved Secondary School Merit Scholarship in 2013.
- Competed in Online and divisional rounds of Daily Star Spelling Bee 2012-13.
- Achieved several sports awards in Football, Cricket, Basketball and Table Tennis.

REFERENCES
