

# ZABIR AL NAZI

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## EDUCATION

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### B.Sc. in Electronics and Communication Engineering

Khulna University of Engineering and Technology

April 2015 - May 2019

CGPA: 3.50 / 4.00

Last Semester GPA: 3.81 / 4.00

**Coursework:** Data Structure and Algorithms, Database Management, Internet Programming, C Programming, Object-Oriented Programming with C++, Digital Image Processing, Digital Signal Processing, Artificial Neural Network and Fuzzy Logic, Numerical Methods, Linear Algebra, Probability and Statistics, Multivariable Calculus, Computer Networks, Analog & Digital Communication.

**Technical Scholarship** (2015, 2016, 2017, 2018)

## WORK EXPERIENCE

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### TigerIT Bangladesh Ltd. – Software Engineer (Deep Learning)

Jan 2020 - Present

· developing deep learning models for vision and biometrics.

### Tappware Solutions Ltd. – Jr. Software Engineer (Machine Learning)

Mar 2019 - Dec 2019

· developing data analytics and predictive tools for CAPS-Group, Japan; developing and managing the full Bokshi cloud ecosystem (vision, ocr, speech, ml) for Bangla.

**Research Internship:** **ice9 Interactive** (Nov 2017 - Feb 2018) {feature analysis on Google street-view images}, **MazeGeek Inc.** (May 2018 - Jan 2019) {web scraping, car-detection system}

## SELECTED PUBLICATION

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- Undergraduate Thesis: [Automatic Skin Lesion Segmentation and Melanoma Detection: Transfer Learning approach with U-Net and DCNN-SVM](#), International Joint Conference on Computational Intelligence 2018 (**IJCCI 2018**), **Springer Book Series: Algorithms for Intelligent System, Book Chapter : 32, Springer** [2018]
- Other Manuscripts: [google scholar](#)

## ACHIEVEMENTS

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**Winner, Innovation fund**, ICT Division, Bangladesh Govt. (2018)

· Project Brainect {Received research grant worth more than **USD \$6000** for developing my proposed research project 'brainect' from ICT Division, BD Govt.}

**ACM International Collegiate Programming Contest**, Dhaka Regional (2015, 2016, 2017)

· <https://icpc.baylor.edu/ICPCID/BIKBO2UHPKON>

**Ignition 2018:** National Mechanical Festival

· **Champion**, Matlab Programming Contest

## PROJECTS

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- Classification of Motor Imagery EEG Signals with Random Subspace Ensemble Network with variable-length feature sampling
- Bangla Newspaper Article Classification with Bidirectional LSTM
- Bokshi Cloud Ecosystem for Bangla NLP, Data Analysis, Vision, and Speech (Bangla OCR, Bangla Text to Speech Synthesis, Medical Symptom Analysis, Bangla ChatBot, Vision) [Flask RESTful API, Apache, tensorflow, Keras]
- Deep Convolutional Network for Text to Speech Engine (A dc-tts implementation for Bangla Language with Transfer Learning)
- Human Activity Recognition with LSTM from Sparse Pose Representation
- Residual Net for Car Detection with spatial transformation (accepted AT ICCA 2020)
- Autonomous driving system with Machine Learning in Matlab (Undergraduate Project)
- All Projects Descriptions/Prototypes: <https://zabir.info/projects.html> <https://github.com/zabir-nabil>

## DATA SCIENCE COMPETITIONS

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Numta, Bengali Handwritten Digit Recognition Challenge (7th Bengali.AI ranking, Kaggle Top 15%)

· <https://www.kaggle.com/furcifer>

## VOLUNTEER EXPERIENCE

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Secretary, **IEEE KUET Student Branch**; Algorithmic Problem Setter, **CodeAssign** (start-up focused on OJ, based on Croatia); Software Team Lead, **KUET Rover Makers** (KUET Robotics Team); Intro Python Instructor, **Fab Lab KUET**; Technical organizer, **TechNival** (Manipulators of Electrons Club, KUET); Founder & Fellow Member, **IRAS** (Innovation and Research Association for Students, KUET); General Secretary, **SGIPC** (club of competitive programming community at KUET)

## CAMPS & WORKSHOPS

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**National BACS Programming Camp 2017**, Khulna Region (got invitation, participated), **National Round 2017** (got invitation, participated); Mentor, **Trial & Error: Introductory Robotics Workshop** arranged by **KUET Makers Hub**; Mentor, **Introductory Robotics Workshop** arranged by **Manipulators of Electrons Club, KUET**; Mentor, **Making Intelligent Robots** arranged by **KUET Robonic (Robotics Club, KUET)**

## INTERESTS

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Writing poems {<https://zabir.info/kabbyas.html>}, Making YouTube videos {<https://www.youtube.com/c/Furcifer>}, Quantum Mechanics, Fiction, Teaching programming to high-schoolers.