

# Joy GHOSH

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WEBSITE www.ijoyghosh.com

## WORK EXPERIENCE

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Current - FEB 2018	Junior Software Engineer at KONA SOFTWARE LAB LTD., Dhaka  Worked on a project that can update an existing Operating System in IOT devices Worked with C, u-boot, wandboard quad.  Working on a project to optimize existing runtime of read write operation and authentication procedure in a USIM product. Working with Java, USIM card.
Jan 2018 - OCT 2017	Junior Programmer at CTRENDS SOFTWARE AND SERVICES LTD., Dhaka Worked on automating business processes in <i>Enterprise Business Solution</i> Software. Worked with Spring MVC, Hibernate, HTML5, CSS3, Bootstrap, JavaScript, PostgreSQL.

## RESEARCH INTERESTS

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Software Engineering, Security, , Operating System, Algorithm, Artificial Intelligence, Social Media Data Analytics

## EDUCATION

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SEPT, 2017	B. Sc. in COMPUTER SCIENCE AND ENGINEERING <b>Bangladesh University of Engineering and Technology</b> , Dhaka CGPA: 3.39 / 4.00
JULY, 2012	Higher Secondary School Certificate <b>Notre Dame College</b> , Dhaka GPA: 5.0 / 5.0
MAY, 2010	Secondary School Certificate <b>St. Gregory's High School</b> , Dhaka GPA: 5.0 / 5.0

## ACADEMIC HONORS

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- Technical Scholarship, Bangladesh University of Engineering and Techonology (2013)

## SKILLS

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Language	C/C++, Java, Python, PHP
Database	Oracle SQL, MySQL, PostgreSQL
Web Development	HTML5, CSS3, Bootstrap, JavaScript, jQuery
Framework	Laravel, Spring MVC
IDE and Tools	Git, CodeBlocks, Visual Studio, NetBeans, Eclipse, Android Studio, $\LaTeX$

## NOTABLE PROJECTS

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TUTORIAL BUDDY	A tool that can extract intervals relevant to some topics or keywords from a lengthy YOUTUBE video Used Python, Tesseract OCR, OPENCV, Wit.ai Speech recognition API
MOVIES360	A movie website similar to IMDB Used Laravel, MySQL, HTML5, CSS3, PHP
SPADE	A multiplayer card game to play via LAN Used Java, Java Swing, Java Socket Programming
PERSONAL WEBSITE	Website designed by me and hosted at <a href="http://www.ijoyghosh.com">http://www.ijoyghosh.com</a> Used BootStrap, CSS3, JQuery, HTML5
TRAIN ALERT	Android app that alerts user about nearby trains to stop accident. Location of train is sent to central server. App reads those location from server through internet. Used Google Play services location API, REST API, MySQL, Rasperry Pi, GPS module
4-BIT PC	4-bit PC with MIPS architecture and simple instructions A hardware project
GRAPH PLOTTER	A tool that can plot 2D and 3D graphs Used C, igraphics
PYCALENDAR	A calendar tool Used Python

## RESEARCH EXPERIENCE

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- TOPIC-RELEVANT FRAGMENT EXTRACTION FROM VIDEO TUTORIALS  
Supervisor : Dr. Anindya Iqbal, Bangladesh University of Engineering and Technology  
Focus : Software Engineering, Information retrieval  
Summary : The target was to identify the interval when a certain topic was discussed in a very lengthy video. OCR, Speech-to-text were used to identify those intervals. To increase the efficiency of OCR 'Weighted Levenshtein distance' was used. The application was successfully tested with 985 min long YOUTUBE videos.

## REFERENCE

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### Dr. Anindya Iqbal

Associate Professor

Department of Computer Science and Engineering  
Bangladesh University of Engineering and Technology

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### Dr. Muhammad Nur Yanhaona

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