Joy Ghosh

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Work Experience

• Graduate Research Assistant at Dept. of Computer Science, Colorado State University

(Aug 2019 - Present)

Area - Software Engineering. Has started working on automating Software Documentation Updating procedures.

• Junior Software Engineer at KONA SOFTWARE LAB LTD., Dhaka

(Feb 2018 - May 2019)

- Decreased file read/write time in USIM card by 26% after changing internal file system data structure to hash map based architecture. Used Java and followed 3GPP, ETSI standards.
- Decreased 4G authentication time of USIM card by 31% by skipping common calculations.
- Developed features like undo/redo operations for GUI based USIM personalization tool using Java Swing.
- Researched different Delta encoding algorithms for FOTA servers and tested their performance on Wandboard Quad. Worked with C, u-boot.
- Junior Programmer at CTRENDS SOFTWARE AND SERVICES LTD., Dhaka

(Oct 2017 - Jan 2018)

- Worked on automating business processes in ERP Software. Used Spring MVC, Hibernate, HTML5, CSS3, Bootstrap, jQuery, PostgreSQL.

EDUCATION

AUG, 2021 M. S. in Computer Science Colorado State University, Fort Collins, Colorado. (Expected) **SEPT, 2017** B. Sc. in Computer Science and Engineering, GPA: 3.39 / 4.00 Bangladesh University of Engineering and Technology, Dhaka, Bangladesh.

SKILLS

Language C / C++, Java, Python, PHP Database Oracle SOL, MySOL, PostgreSOL

Web Development HTML5, CSS3, Bootstrap, JavaScript, jQuery

Framework Laravel, Spring MVC

NOTABLE PROJECTS

- TUTORIAL BUDDY Developed a tool that can identify when a certain topic was discussed in a lengthy YouTube video. Used Python, Tesseract OCR, OpenCV, Wit.ai Speech Recognition API.
- DISTRIBUTED AND FAULT TOLERANT FILE SYSTEM Developed a tool where people can upload & retrieve files to a Distributed Network. Fault Tolerance is achieved via Replication and Erasure Coding. Used Java, TCP, Reed-Solomon API.
- USNEWS SCRAPPER Developed a tool to store University ranking data from usnews.com in excel file. Used Python.
 - Can be installed from PyPi by 'pip install usnews-scrapper' command.
- Movies360 Developed a movie website similar to IMDB. Used Laravel, MySQL, HTML5, CSS3, PHP.
- SPADE Developed a multiplayer card game to play via LAN. Used Java, Java Swing, Socket Programming.
- Personal Website Developed a website hosted at www.ijoyghosh.com. Used BootStrap, CSS3, jQuery.
- TRAIN ALERT Developed an Android app that alerts user about nearby trains to stop accident. Used Google Play services location API, REST API, MySQL, Raspberry Pi, GPS module.
- 4-BIT PC Designed 4-bit PC with MIPS architecture and simple instructions as a hardware project.
- GRAPH PLOTTER Developed a tool that can plot 2D and 3D graphs from equations. Used C, iGraphics.
- PYCALENDAR Developed calendar tool. Used Python.

ACADEMIC HONORS

- Technical Scholarship from Bangladesh University of Engineering and Technology (2013)
 - Awarded for good performance in B.Sc. admission test. Ranked 186th out of nationwide 50,000 applicants.

OTHER ACTIVITIES

- Tutored an Undergrad student on CS classes (Algorithms, Data Structure, Digital Logic Design, OOP, AI) for over 2 years.
- · Created Bengali subtitle of movie 'Man of Steel' with a rating of 10/10 and over 3000 downloads.