AGNILA BARUA

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TECHNICAL SKILLS

Languages: Python, C/C++, SQL (My, PostgreSQL), NoSQL (DynamoDB), JavaScript, HTML/CSS, LaTex
Numerical Analysis & **Project Management Tool**: MATLAB; Jira, Trello
Design Software: Cloud Craft, draw.io, PSPICE, Cadence Virtuoso, AutoCAD, OptiSystems 14.1
Operating System: Windows, Amazon Linux 2023, Ubuntu, Windows Subsystem for Linux
Developer Tools: Git, SourceTree, Amazon Web Service Cloud Platform, VS Code, Code::Blocks, MikTex
Web Server & **Database**: Apache, Tomcat, Ngnix; RDS (MariaDB, MySQL), Non-Relational DS

EDUCATION

AWS re/Start Program   May 2023 – Aug. 2023
IT & Cloud Technology Specialist | Youth Employment Service (YES)   *Toronto, ON*

MASTER OF APPLIED SCIENCE (M.A.Sc.)   Jan. 2019 – Dec. 2022
Electrical Engineering | University Of Windsor   *Windsor, ON*

BACHELOR OF SCIENCE (B.Sc.)   Jul. 2011 – Feb. 2017
Electrical & Electronics Engineering | Chittagong University of Engineering & Technology   *Bangladesh*

EXPERIENCE

Amazon Web Service (AWS) Trainee   May 2023 – Aug. 2023
Youth Employment Service   *Toronto, ON*
- Developed a REST API using FastAPI and PostgreSQL to store data from learning management systems
- Developed a full-stack web application using Flask, React, PostgreSQL and Docker to analyze GitHub data
- Explored ways to visualize GitHub collaboration in a classroom setting

Next Generation Wireless Communication Research Assistant   Jan.2020 – Jan. 2023
University of Windsor   *Windsor, ON*
- Communicate with managers to set up campus computers used on campus
- Assess and troubleshoot computer problems brought by students, faculty and staff
- Maintain upkeep of computers, classroom equipment, and 200 printers across campus

Graduate Teaching Assistant   Jan.2019 – Dec. 2019
University of Windsor   *Windsor, ON*
- TA Courses: *Circuit Analysis* & *General Engineering Mathematics*
- Assisted professors, conducted tutorials and lab classes in MATLAB, PSPICE
- Aided Undergraduate and Graduate (M.ENG.) students in solving problems throughout the course
- Proctored Exam and marked exam papers for all possible solutions, developed solutions

PROJECTS

Static and Dynamic Web App | *frontend, backend, AWS, Database, REST API*   June 2020 – Present
- Developed an web application using HTML, CSS, TailwindCSS, JavaScript as frontend
- Hosted the static version of web app on S3 bucket and registered DNS with Route53
- Simple backend was done in Supabase with coloumner RDS and REST API call
- On process: Hosting the backend on AWS using 3 tier network with RDS, Autoscaling, VPC, EC2, Amazon Linux

IOT/ Dojo lab/ C++ | *Spigot API, Java, Maven, TravisCI, Git*   May 2018 – May 2020
- Developed a Minecraft server plugin to entertain kids during free time for a previous job
- Published plugin to websites gaining 2K+ downloads and an average 4.5/5-star review
- Implemented continuous delivery using TravisCI to build the plugin upon new a release
- Collaborated with Minecraft server administrators to suggest features and get feedback about the plugin

Courses

AWS re/Start Program | *AWS, Linux OS, SQl, NoSQL, Python, Docker, Git*   May 2023 – August 2023
- Built IT fundamental skills, including: working knowledge of Linux OS, writing scripts in Python and Shell
- Learned how to apply core AWS services in the area of compute, storage and networking, including EC2, S3, IAM, VPC, Lamda, Cloud Formation, RDS and Route 53

Graduate | *MATLAB, PSPICE, OptiSystems, Code::Blocks, VS Code, MikTex*   Jan 2019 – April 2020
- Digital Communication; Stochastic Process; Wireless Communication; Estimation, Tracking, Navigation
- Information Transmission System, Digital Signal Processing, Engineering Technical Communication