U Khyoi Nu

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EDUCATION

San Francisco State University <div align="right">San Francisco, CA</div>
Master of Science in Computer Science; GPA: 3.86 <div align="right">Jan 2019 – Dec 2020</div>

Shahjalal University of of Science and Technology <div align="right">Sylhet, Bangladesh</div>
Bachelor of Science (Engg.) in Computer Science and Engineering; <div align="right">Jan 2013 – Sep 2017</div>

PROFESSIONAL EXPERIENCE

San Francisco State University <div align="right">San Francisco, CA</div>
Instructional Student Assistant <div align="right">Spring 2020, Fall 2020</div>

- Helped four groups of students to successfully develop and deploy their web applications as class projects.
- Graded, mentored and occasionally instructed the courses - Introduction to Computer Programming (CSC 210), Data Structures (CSC 220) and Software Engineering (CSC 648/848).
- **Technologies:** Java, MySQL, Git, AWS

Summer Research Assistant <div align="right">Summer 2020</div>

- Achieved an AUC of 81% in classification and analysis of individual level physical activity using **Machine Learning** techniques on large scale data. Key contributions include - data preprocessing, feature engineering, developing machine learning models, extracting impactful determinants and data visualization.
- **Publication:** https://ieeexplore.ieee.org/document/9308353
- **Technologies:** Python, Tableau, Scikit-learn, NumPy, Pandas, SHAP

Backpack Technologies, Inc. <div align="right">Dhaka, Bangladesh</div>
Software Development Intern <div align="right">Oct 2017 - Mar 2018</div>

- Designed and developed a bulk messaging application to send messages to 10,000+ customers.
- Helped in increasing the customer base of the company by developing a flight booking site from scratch.
- Experimented on sales website with A/B testing resulting in an increased revenue.
- Collaborated with cross-disciplinary teams for data analysis that improved user experience.
- **Technologies:** React, Node.js, PHP, HTML, CSS, MySQL, Git, Optimizely, Postman, BigQuery, CircleCI, Docker

PROJECTS

Ceres <div align="right">Sep 2019 - Dec 2019</div>

- An online application to minimize food waste providing features like digitally sharing a fridge and shopping lists among multiple users in the same household, searching for recipes based on existing items etc.
- As the team-lead and full-stack developer in a team of six, key contributions include - designing the product features and database schema; setting up and maintaining the web server and MySQL database on AWS; developing key backend functionalities and database interactions.
- **Technologies:** Python, Django, HTML, Bootstrap, MySQL, Git, AWS, NGINX, uWSGI

Ekushe Bangla Keyboard <div align="right">Oct 2016 - Sep 2017</div>

- A gesture based transliteration keyboard for android with 50,000+ users on **Google Play Store**.
- Researched, designed, developed and tested the alpha version as front-end and back-end developer in a team of two.
- **Download Link:** https://play.google.com/store/apps/details?id=com.bangla.keyboard
- **Technologies:** Java, Android, Trie algorithm

ProctorSUST <div align="right">Oct 2016 - Mar 2017</div>

- A web application developed for university proctor office. The application supports different user views based on roles.
- As a full-stack developer, gathered requirements and designed the product features by communicating with users and stakeholders. Designed the database schema and developed key frontend and backend functionalities.
- **Source Code:** https://github.com/khyokhyo/proctorSUST
- **Technologies:** PHP, Laravel, HTML, CSS, Bootstrap, MySQL

TECHNICAL SKILLS

Languages: Java, Python, C, PHP, Javascript, HTML, CSS **Frameworks/Libraries**: React, Redux, Node.js, Django, Laravel, Bootstrap, Scikit-learn, NumPy, Pandas, SHAP **Databases**: MySQL, MongoDB **Operating Systems**: Linux, MacOS, Windows **Tools/Technologies**: Git, Tableau, MATLAB, AWS, NGINX, uWSGI, XAMPP, Optimizely, IBM SPSS, Unity, Postman, LaTeX

OTHERS

- Conducted a hands-on workshop on React for beginners attended by 30+ participants (2018).

- Got an internship opportunity by participating in "HackBackPack 2", a hackathon organized by Backpack Technologies, Inc. (2017).