Sajib Sen

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EXPERIENCE

- **University of Memphis** — Memphis, TN
  Research and Teaching Assistant — *Jan. 2020 - May 2020*
  - **Fair AI**: Analysing unwanted algorithmic biases for prediction and optimization using adversarial learning.
  - **Evolutionary Computation**: Collaborating with graduate students for their metaheuristic algorithm projects.

- **ReTrans, Inc.** — Memphis, TN
  Software Engineer Intern — *Sept. 2019 - Dec. 2019*
  - **Testing**: Improved codebase quality by implementing unit and regression tests for management files in Django.
  - **Development**: Implemented webcrawler to store service delivery information in the database, evaluated by the magnitude of customers' satisfaction, easily accessed information by Analyst, and code usability.
  - **Enhancement**: Resolved issues (e.g., storing 204 files in csv format) to enhance code functionality and usability.
  - **Code Migration**: Migrated legacy code-base from Python2.7 to Python3.x and decreased 5x run-time.

- **UMRF Ventures - FedEx Information Security** — Memphis, TN
  System Analyst Intern — *Sept. 2019 - Dec. 2019*
  - **Data Analysis**: Analyzed big dataset provided by FedEx InfoSec team using Splunk; evaluated by presented findings through Splunk's dashboards, visualizations, alerts, and reports.
  - **Data Evaluation**: Improved 50% stored data health by comparing with Splunk's Common Information Model.
  - **Enhancement**: Looked for trends in data, monitored digital health of FedEx systems, confirmed data sources were reporting consistently and created knowledge articles with in-depth explanations of various data sources.

- **University of Memphis** — Memphis, TN
  Research and Teaching Assistant — *Aug. 2017 – Aug. 2019*
  - **Recover Image**: Implemented model to recover image, resized to downscale, measured by the image quality.
  - **FEMA Projects**: Increased 20% user participation by introducing puzzle-based/interactive learning in two FEMA funded Cyber Emergency Training Projects. Collaborated with Texas A&M Engineering Extension Service.
  - **Data Structures and OOP**: Worked as Scrum Master to mentor four students' projects. Ran lab work, involved in creating assignments, graded papers, and supervised two other TAs.

EDUCATION

- **University of Memphis** — Memphis, TN
  Master of Science in Computer Science, Expected Graduation : May 2020 — *Aug. 2017 – May 2020*

- **Khulna University of Engineering and Technology** — Khulna, Bangladesh
  Bachelor of Science in Electrical and Electronic Engineering — *Mar. 2010 – Sept. 2014*

PROJECTS

- **Cholo**: A simplified web-based car rental application using Django, Python, SQL, and JavaScript.
- **Sen's Fitness**: A simplified paid membership website using Stripe REST API with Django.
- **Hackathon Organizer**: A web-based events (hackathon) management system using Ruby on Rails and SQL.
- **Is_Review_Fake**: A web-based reviewer verification system using Django, Python, and NLTK.
- **Big File Converter**: File conversion service (json to parquet/avro and vice-versa) using PySpark and Django.
- **Explore AI**: Compared exploration rate of heuristic algorithms using Stanford GraphBase dataset in Python.
- **AI Layered SDN**: Automated Software-Defined Network(SDN) controller rules during DDoS attack in Python.

LANGUAGES AND TECHNOLOGIES

- **Programming/Scripting Languages**: Python, SQL, Bash, JavaScript, HTML, CSS.

- **Technologies**: Linux, Django, Git, MySQL, PostgreSQL, SQLite, MongoDB, PySpark, GCP, Scikit-learn.