Sajib Sen

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Google Scholar Profile

EXPERIENCE

- **ReTransportation, Inc., A Kuehne & Nagel Company** — Memphis, TN
  Software Engineer, Full-time, Contract — *Jun. 2020 - Present*
    - Writing Python and Django solutions for EDI communications, reporting, invoicing, tracking, and new customer/carrier integration with the MercuryGate Transportation Management System (TMS).
    - Solving immediate software issues while maintaining large industry integration project using agile method.
    - Working on DevOps project to facilitate different docker instance of the codebase for local development.
    - Communicating with business analysts to understand software requirements and project planning; helping in high-level business planning by performing data analysis on customer, carrier, and agent's raw data.

- **ReTransportation, Inc., A Kuehne & Nagel Company** — Memphis, TN
  Software Engineer Intern, Part-time — *Sept. 2019 - Dec. 2019*
    - Improved test coverage for continuous integration of production code by implementing regression tests.
    - Migrated legacy codebase to Python3, documented, and reported issues in daily stand-up meeting.
    - Solved immediate software issues of EDI communications, extracts, file-parsing, and invoicing.

- **UMRF Ventures Inc.** — Memphis, TN
  System Analyst Intern, Part-time — *Sept. 2019 - Dec. 2019*
    - Analyzed big datasets and presented findings through Splunk's dashboards, visualizations, and alerts.
    - Improved 50% stored data health provided by FedEx InfoSec team comparing with Splunk's CIM.
    - Looked for trends in data and created knowledge articles with explanations of various data sources.

- **University of Memphis** — Memphis, TN
  Research Assistant, Part-time — *Aug. 2017 – Sept. 2019*
    - Implemented model to recover image, resized to downscale, measured by the image quality.
    - Analyzed unwanted algorithmic biases for prediction and optimization using explainable AI.
    - Worked as lead developer and increased 20% participation in two FEMA Cyber Emergency Projects.

EDUCATION

- **University of Memphis** — Memphis, TN
  Master of Science in Computer Science, Overall GPA: 3.87/4.00 — *Aug. 2017 – May 2020*

- **Khulna University of Engineering and Technology** — Khulna, Bangladesh
  Bachelor of Science in Electrical and Electronic Engineering, Overall GPA: 3.58/4.00 — *Mar. 2010 – Sept. 2014*

PROJECTS

- **Rent-A-Car**: Software as a Service (SaaS) application to rent cars using Django, Python, SQLite.
- **Premium Fitness**: Paid membership service provider on the web using Stripe REST API with Django, Python.
- **Hackathon Organizer**: A web-based events (hackathon) management system using Ruby on Rails and MySQL.
- **Big File Converter**: File conversion service (json to parquet/avro and vice-versa) using PySpark and Django.
- **Reviewer Verification**: A web-based reviewer verification system using Django, Python, and NLTK.

LANGUAGES AND TECHNOLOGIES

- **Programming/Scripting Languages**: Python, Shell, HTML5, CSS3, JavaScript, Java (prior experience).

- **Technologies**: Linux, Django, Git, MySQL, AWS, Docker, Kibana, Splunk, SDLC, Agile Development.

PUBLICATIONS

- **Sen S.**, Dasgupta D., Gupta K.D. *An Empirical Study on Algorithmic Bias*. AIML-2020: IEEE International Workshop on Advances in Artificial Intelligence & Machine Learning: Addressing Risks & Concerns. 2020.