TOM ISLAM

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Skills

Languages: Python, MySQL, C, Typescript (JavaScript), Shell, HTML, CSS, Hack (PHP)

Frameworks: Prompt Engineering, Hive (Hadoop), Scuba (in-memory storage system), Dataswarm (data pipeline), LangChain, Pandas, Pytorch, TensorFlow, GraphQL, GCP, AWS

Tools: Selenium, ADB, Wireshark, Postman, Mercurial, NginX, Gunicorn

Project Management: Agile, Waterfall, Scrum, Sprint, Jira, Asana, Tableau

Work Experience

Meta – Austin, TX | January 2022 – Present
Software Engineer
Metrics and Measurements (Hack, Typescript, Python, Deltoid3)
- Took ownership for investigating gaps in legacy video metrics and underlying documentation. Provided evidence of compliance for 100% of the critical video metrics with a RACI matrix approach across multiple teams.
- Detected metrics not captured by the Metric Operation Tool (MOT), investigated root causes, and implemented successful mitigation strategies. This contributed in the +31% delta against H1, 2023 baseline and +20% above P50 goal.
- Achieved end-to-end coverage by conducting MEET tests, encompassing 110 Saber metrics and 149 critical external metrics.
- Significantly improved test stability and reduced test flakiness. A 30% reduction in noisy alerts for on calls over a month.
- Developed a robust and efficient API, coupled with cacheable databuilders using Hack and Typescript.
- Integrated seamless migration from Session Based Logging to the successor Video Session Logging into the codebase.
- Identified and addressed over a dozen ownership gaps in critical metrics, effectively delegating tasks to resolve mismatched ownerships, leading to enhanced team accountability and improved accuracy of metrics signals.
- Developed a custom Python-based data pipeline, automating the External Metric Experimentation (EME) tool to safeguard against regression of crucial external metrics.
- Effectively onboarded four essential core metrics, ensuring their seamless integration and accurate tracking within the experimentation process.

Fraud Detection (Python, SQL)
- Automated video view fraud investigation by integrating video logging level and account level fraud signals.
- This holistic approach resulted in a remarkable 100-fold increase in investigation speed, while ensuring a more precise identification of fraudulent video views.
- Used Jupyter Notebook for meticulous manual vetting of bad actors and suspicious sessions on Facebook and Instagram platforms. This proactive approach significantly contributes to robust machine learning models for fraud detection.

Search API (Hack)
- Contributed to the development of an internal search engine (bunnylol) for the team. The search engine allows users to quickly lookup team-related resources by keyword, such as "vlm".

Dashboard (Unidash, SQL)
- Created Media Metrics Test Health dashboard using Unidash (internal BI Tool) and SQL. This dashboard represents the health of metrics in both read and write sides over a timeline along with raised exceptions.
- Added a dashboard to represent a time series of test execution time. This enabled a deeper insight into metric health by cutting down manual investigation time. This information can be used to proactively identify and fix problems before they cause outages or other disruptions.

Bug Report (and A Legendary Badge)
- Discovered and reported a critical bug that impeded the display of ads on Android platform videos when played at 2x speed.
- The meticulously provided bug report, classified as a **launch-blocking issue**, led to a prompt and successful resolution.
- Was awarded the esteemed 'Top FB Employee Dogfooder' badge, an honor bestowed upon less than 0.5% of employees.

Samsung Mobile – Bellevue, WA | May 2019 – October 2021
SDET
- Full-lifecycle development experience with adherence to quality concepts and processes.
- Effective communication skills with technical and non-technical stakeholders.
- Test automation experience with Python and Selenium in functional and non-functional testing, including performance benchmarking and compliance verification testing.

- Automated testing of the Wireless Emergency Service (WES) on real Android devices and across various OS builds using the Page Object Model (POM) to ensure well-structured test scripts.
- Extensive experience in a variety of testing types, including smoke, regression, exploratory, accessibility, new feature, and integration testing.
- Cross-platform testing experience: Proven ability to test applications on Windows, Unix, and Linux platforms.
- Effective bug triage process: Efficiently handle reported issues and provide timely status updates for release readiness decisions.
- Tech stacks, knowledgebase and tools used and not limited to RDX, Cucumber, Appium, Selenium, Jenkins, Shell and bash Scripts, 5G/LTE RAN network architecture, SAS, Anritsu, Anite, R&S CMW500, Keysight, vRAN applications, like QXDM, Knox, Wireshark, Odin, ADB cmd, Logcat, QPST, etc

Kilgore Industrial – Beaumont, Texas | March 2015 – July 2016
Project Control Analyst

- Led several projects from the scope to commissioning and start-up of the new investment ranging from 20 to 250 employees.
- Identified project phases and elements and help assigned personnel to various Mechanical, Civil, and Electrical Engineering projects. Improved quality by 29%, cut lead times 18%, cut costs 35% in less than a year.
- Managed the "Learn by Benchmarking" project. Created opportunities for 10 change-leaders to travel to other facilities. These employees then returned to share best practices with peers.
- Worked on projects which involves installation of power supply, pipes, building blast walls, tank cleaning, labor supply, excavation etc. with companies like International Paper, Gerdau, AkzoNobel, MeadWestvaco, Total refinery, Golden Pass LNG, Lanxess, Shell, Texas Park, and Wildlife etc.

Other Experiences

- T-Mobile – Redmond, Washington | October 2021 – January 2022
  SDET (Hardware)
- T-Mobile – Beaumont, Texas | December 2018 – May 2019
  Mobile Phone Associate
- GameStop – Beaumont, Texas | August 2018 – December 2018
  Senior Game Advisor
- BHWCS – Beaumont, Texas | March 2014 – March 2015
  Project Engineer Intern
- Akkhor Soft – Dhaka, Bangladesh | March 2008 – June 2011
  Web Designer

Education

- Masters in mechanical engineering – Lamar University, Beaumont, Texas
- Bachelors in mechanical engineering – Khulna University of Engineering and Technology, Khulna, Bangladesh

Personal Projects

https://www.tomislam.com/data-science-projects-part-1/

https://www.tomislam.com/data-science-projects-part-2/

Github: https://github.com/bornohin

LinkedIn: https://www.linkedin.com/in/bornohin/

Kaggle: https://www.kaggle.com/bornohin

Personal Website: https://www.tomislam.com/