

Fahmid Morshed Fahid

AI Researcher | Machine Learning | Software Engineer

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🌐 <https://fahmidmorshed.github.io> | **in** fahmidmorshed | 🔄 FahmidMorshed

EDUCATION

NC STATE UNIVERSITY

PHD IN COMPUTER SCIENCE

Exp. Jan 2024 | AI in Education

MSc IN COMPUTER SCIENCE

May 2022 | CGPA 3.80/4

SKILLS

OVER 100000 LINES OF CODE

Python • Java • C++ • R • SQL

LIBRARIES AND FRAMEWORKS

Pytorch • Keras • Stable
Baselines • OpenAI Gym •
Scikit-learn • Hugging Face •
NumPy • Plotly • Hack • Weka
• Seaborn • CUDA • Pandas •
Spark • Tensorflow • SciPy

OTHER TOOLS

Git • Hive • Mercurial • Docker
• Shell • Jupyter • OpenFace

AREA OF EXPERTISE

Reinforcement Learning

Classical Machine Learning

Statistical Analysis

Deep Learning

Data Mining

EXTRA CURRICULAR

Peer-reviewed many renowned journals & conferences.

Regional Winner: Microsoft Imagine Cup 2016, Bangladesh.

Co-authored a book chapter on AI-based Student Modeling.

AI in Ethics committee member of EngageAI since 2022.

WORK EXPERIENCE

META PLATFORMS | PHD SOFTWARE ENGINEER (ML) INTERN

May 2022 – August 2022 | PYMK Team | Menlo Park, CA

- Optimized friend requests using Reinforcement Learning leveraging Hack, SQL, Python with large & distributed dataset.
- A/B test showed an increment of **2% daily active users**.
- Collaborated with 3 teams to document new bidding pipeline.

META PLATFORMS | PHD SOFTWARE ENGINEER (ML) INTERN

May 2021 – August 2021 | FCWB Team | Remote

- Personalized comment ranking using Deep Learning (Natural Language Processing & Graph Embedding) with Python & SQL.
- Trained & launched distributed models in production, resulting in **4% ROC-AUC improvements** in engagement.

POWER COSTS | SOFTWARE ENGINEER INTERN

May 2019 – August 2019 | Product Engineering Team | Raleigh, NC

- Developed 6 internal tools with Java & PowerShell for maintaining legacy projects into smaller SVN repositories.
- Reduced **6% storage in AWS** by removing bad commits.

REVE SYSTEMS | SOFTWARE ENGINEER

February 2017 – July 2018 | Billing Team | Dhaka, Bangladesh

- Fullstack Agile Development of **3 websites** including e-commerce, evidence management, & CMR.
- Maintained servers & databases for **6 e-commerce websites**.

RESEARCH EXPERIENCE

EDUCATIONAL AI | GRADUATE RESEARCH ASSISTANT

January 2020 – Present | IntelliMedia Lab | Raleigh, NC

- Explored Deep Learning, Reinforcement Learning, Time-Series Analysis, Clustering, Regression, & Statistical Analysis to understand & support students using limited data.
- Collaborated with 4 institutes & led 3 projects that required verbal & written communication & technical documentation.
- Published **8 conference papers**. TODOTODOTODOTODO See Google Scholar.
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SOFTWARE ENGINEERING | GRADUATE RESEARCH ASSISTANT

August 2018 – Dec 2019 | RAISE Lab | Raleigh, NC

- Applied Natural Language Processing with Classical Machine Learning to identify technical debts in source codes.
- Collaborated with **Lexis Nexis** to scale automated UI testing using Active Learning with human-in-the-loop framework.
- Published **2 journals & 1 conference paper**. See Google Scholar.