

# Md Mosharaf Hossan

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## Professional Experience

### Researcher

*August 2023 – Present*

Idaho State University, Idaho, United States

- Published [6 peer-reviewed papers](#) on software engineering and VR gamified therapy.
- Developed real-time heart rate adaptive VR and Android games for Mysophobia intervention.

### Senior Software Engineer

*January 2021 – April 2023*

Sigma Solutions, Dhaka, Bangladesh

- Oversaw a team to automate Service Center workflows for a telecom provider serving over 56M users and enabled near real time fault detection on 16K nodes.
- Managed the creation of a bot-based telecom node monitoring solution that cut monthly client costs by \$30,000.
- Led WebDriver-based UI automation for Huawei and Ericsson telecom portals which resulted in 50% time savings.
- Designed and developed RESTful APIs for [Smartcomm](#), a SaaS-based omnichannel customer query management system.

### Software Engineer

*March 2019 – December 2020*

Sigma Solutions, Dhaka, Bangladesh

- Designed UI, integrated payment gateway, and developed RESTful APIs for Pixmama, a stock photo marketplace with over 80K photos.
- Reduced review time for image moderators by creating a duplicate photo detection system with Amazon Rekognition and Elasticsearch.
- Built a CRM-enabled operations platform for a construction firm that reduced manual effort by around 30% by improving field coordination.

### Software Engineer

*April 2018 – February 2019*

Hyper Systems Ltd., Dhaka, Bangladesh

- Developed RESTful backend APIs and frontend components for [myRADAR](#), a real-time vehicle tracking system used by 2,000 daily active devices.
- Increased refuel detection accuracy in [myRADAR](#) by 20% through anomaly filtering and long-term fuel pattern analysis.

## Education

*May 2025*

### Master of Science in Computer Science

Idaho State University | GPA: 3.95/4.0

### Bachelor of Science in Computer Science & Engineering

*February 2018*

Khulna University of Engineering & Technology

## Skills

- Languages: PHP, JavaScript, SQL.
- Frameworks: Laravel, PHPUnit, Vue.js, Express.js
- Cloud: AWS (EC2, S3, Lambda, RDS)
- Tools: Git, Redis, Docker, Vim
- DBMS: MySQL, PostgreSQL, MongoDB
- Operating Systems: Linux, MacOS