

# Md Olid Hasan Bhuiyan

PhD student, Department of  
Computer Science, University of  
California, Riverside.

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[CV Last Updated: 08 May, 2025]

## Research Interest

- Security and Privacy, Computer Vision, Computer Networks

## Education

- PhD in **Cybersecurity**, University of California, Riverside  
PhD Supervisor – [Prof. Emiliano De Cristofaro](#)  
*September 2024 - Present*
- BSc in Computer Science and Engineering, Bangladesh University of Engineering and Technology  
**Undergraduate Thesis Topic:** Cloud Security  
*March 2018 – May 2023*

## Employment

- **March 2025 – Present**
  - o Teaching Assistant and Graduate Student Researcher, University of California, Riverside (UCR)
- **April 2024 – September 2024**
  - o Site Reliability Engineer, Relisource Software Ltd.
- **June 2023 – March 2024**
  - o Programmer, Grameen Bank IT Department

## Honors & Awards

- **Professional Member**, Association for Computing Machinery (ACM), ID: 9085533  
*May 2025*
- **2<sup>nd</sup> Place**, in Graduate Division at [UCR Programming Contest](#), with 628 points among 222 participants  
*October 2024*
- **Dean's Distinguished Award**, University of California, Riverside  
*Sep 2024 – March 2025*
- **Conference Speaker**, 14th International Conference on Cloud Computing and Services Science  
*May 2024*
- **RISE Research Grant**, Research and Innovation Center for Science and Engineering, BUET  
*February 2023*
- **Four times** Regional Physics Olympiad and **One-time** National Physics Olympiad Winner  
*2014 - 2017*

## Publications

- **Md Olid Hasan Bhuiyan**, Souvik Das, Shafayat Hossain Majumder, Suryadipta Majumdar, Md. Shohrab Hossain  
**On Detecting Malicious Code Injection By Monitoring Multi-level Container Activities**  
14th International Conference on Cloud Computing and Services Science
- Towhidul Islam, Md Mehedi Hasan Rigan, **Md Olid Hasan Bhuiyan**, Tanzima Hashem, Md Mahbubur Rahman  
**H2OPulse: Smartphone-Assisted Vein Evaluation for Early Recognition of Dehydration**  
[Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies](#),  
November 2024

## Research Experience

- **Final Year Thesis Work**, Bangladesh University of Engineering and Technology.  
Thesis Topic: Security in Cloud Environment
- **Vein-Based Imaging Approach for Real-Time Dehydration Detection**, Bangladesh University of Engineering and Technology  
engaged in a research work with **Professor Dr. Tanzima Hashem** from Department of CSE, BUET. In this research, we detected dehydration from hand vein image using different deep learning models.
- **Privacy Auditing in Vertical Federated Learning**, University of California, Riverside

## Technical Skills

- **Programming Languages:** Assembly, C, C++, C#, Java, Python, CUDA
- **Documentation and Presentation Tools:** Latex, MS Office Suite
- **Software Development Framework:** Node.js, React.js, Django, Javafx, .NET
- **DBMS Tools:** Oracle, PostgreSQL
- **Network Simulation Tool:** NS3
- **Computer Forensic Tools:** Strace, Sysdig, Wireshark, New Relic
- **Others:** Kubernetes, Docker Container, git, Machine Learning/Deep Learning

## Projects

- **StackOverflow Search Engine (01/2025 – 03/2025)**
  - o This project is an AI-powered search engine designed to help developers quickly find solutions to programming errors by leveraging Stack Overflow data. The system combines keyword-based search (using Lucene) and semantic search (using BERT) to retrieve relevant answers, and it employs a Large Language Model (LLM) to generate concise and accurate solutions.
  - o Full Code is available at [Sizvy/CS242 Project](#)
- **Bangla Caption Generation for images (02/2023 – 03/2023)**
  - o In this project, a new model is proposed and implemented that can generate Bangla caption for a given image
  - o Full Code is available at <https://github.com/Sizvy/Bangla-Caption-Generator-for-images.git>
- **Bangla Digit Recognition using CNN (01/2023 – 02/2023)**
  - o This CNN model is built from scratch. The applied model showed 77% independent test accuracy and 91% validation accuracy.
  - o Full Code is available at <https://github.com/Sizvy/Bangla-Digit-Recognition.git>
- **Englishour (08/2022 – 10/2022)**
  - o This is a software development project. Purpose of this project is to create an English Learning Platform for children.
  - o Full Code is available at
    - **Frontend:** [https://github.com/swapped004/englishour\\_FE.git](https://github.com/swapped004/englishour_FE.git)
    - **Backend:** <https://github.com/tawsifshahriar7/englishour-backend.git>
- **TCP Libra (11/21 – 02/22)**
  - o This is a congestion control algorithm implemented successfully in NS3.
  - o Full Code is available at <https://github.com/Sizvy/Tcp-Libra.git>