

Md Olid Hasan Bhuiyan

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

Homepage: [olidhasanbhuiyan](https://olidhasanbhuiyan.github.io)
Email: mbhui008@ucr.edu,
sizvy06@gmail.com
LinkedIn: [OlidHasan](#)
Google Scholar: FqGRNsAAAAAJ

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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
- **2nd 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
Accepted at IMWUT 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 are trying to detect 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
 - **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>