

# Javed Hossain

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## Summary

Experienced in computational science pedagogy and research with a strong background in machine learning, linear algebra and statistics.

## Education

**Master of Science in Computer Science**  
Cumulative GPA: 3.87/4.00

**University of Colorado Boulder, USA**  
August, 2013

**Bachelor of Science in Computer Science**  
Cumulative GPA: 3.93/4.00, Summa Cum Laude

**North South University, Dhaka, Bangladesh**  
May, 2010

## Experience

- **Adjunct Lecturer / June 2020 - Present / North South University, Bangladesh**  
Currently teaching data structures, algorithm analysis and theory of computation. Previously taught C programming and discrete mathematics.
- **Lecturer / May 2014 - May 2018 / Independent University, Bangladesh**  
Taught introductory C++ programming, object-oriented programming with Java, linear algebra, data structures and arduino based robotics.
- **Volunteer Software Developer / November 2013 - April 2014 / Proyash Institute**  
Volunteered as a software developer for the Proyash Institute of Special Education and Research, Bangladesh. Worked with teachers to build a software that would help them teach children with autism spectrum disorder. Helped maintain the institute's main website.
- **Graduate Research Assistant / March 2012 - July 2013 / University of Colorado Boulder**  
Worked on an open-source web based framework called the Lighthouse. Primary tasks involved solving sparse systems of linear equations using PETSc, applying machine learning techniques using MATLAB, designing and maintaining websites.
- **Undergraduate Research Assistant / September 2009 - April 2010 / North South University**  
Developed a plant species identification system with MATLAB by training an artificial neural network with pictures of 1200 leaves from 30 different plant species. The average recognition accuracy of the system was 91.41%.

## Publication

- **Conference Paper**  
J. Hossain, and A. Amin, "Leaf Shape Identification Based Plant Biometrics" in Proceedings of the *International Conference on Computer and Information Technology*, Dhaka, Bangladesh, 2010, pp. 458-463.

## Skills

- Programming languages: C, C++, Java, Python, C#
- Tools: MATLAB, MySQL, PETSc, Android Studio, Adobe Premiere Pro, Audacity, GIMP
- Excellent verbal and written communication skills
- Ability to learn a new tool/software/programming language quickly

## Activities

- Scuba diving in Indonesia, Malaysia, Thailand, Sri Lanka and Maldives
- Trekking in the Himalayan mountain range (in Nepal, Bhutan and India)
- Underwater photography and videography
- Drone photography and videography