

# ABU AWAL MD SHOEB

A passionate, innovative technologist with research, data science and leadership experience

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## EXPERIENCE

### Machine Learning Research Scientist

#### 3M Health Information Systems (HIS)

April 2021 - Present New Jersey

- Research involves automatic annotation of clinical notes, clustering, and improvements of the 3M OneNLU pipeline

### Research and Teaching Assistants

#### Rutgers University

2015 - 2021 New Brunswick, New Jersey

### Summer Research Intern

#### Nokia Bell Labs

Summer 2018 & 2017 Murry Hill, New Jersey

- Analyzed data containing users' requirements and job descriptions to allocate optimal resources from a shared GPU cluster
- Developed a module for Bell Lab's internal Deep Learning Training System to reduce the overall training time of jobs and released it under a heterogeneous cluster using Kubernetes
- Technologies: Python, Kubernetes, Ansible, Grafana, Docker

### Software Engineer Intern

#### Medsnap LLC

Summer 2015 & 2014 Birmingham, Alabama

- Researched drug-related data and images and developed a visualization tool to help to identify counterfeit medication
- Technologies: Vagrant, PHP, Amazon EC2, d3, JavaScript, MSSQL

### Graduate Research Assistant

#### University of Alabama at Birmingham (UAB)

Fall 2013 - Spring 2015 Birmingham, Alabama

- Analyzed millions of spam email data points and developed a clustering algorithm to identify major spam email campaigns
- Developed a tool to collect performance-related data from Amazon EC2 and proposed instances by analyzing user-specific job requirements

### Project Lead

#### Center for Research, Testing, and Consultancy, SUST

2009 - 2011 Sylhet, Bangladesh

- Introduced mobile SMS based registration and payment systems for undergraduate admission test first time in Bangladesh
- Team Size 11, End users ~2.3M

### Founder & CEO

#### Criss Cross Computers

2011 - 2020 Sylhet, Bangladesh

- Developed and implemented the first online service for students at SUST to make payments and withdraw transcripts

## EDUCATION

### Ph.D. in Computer Science

#### Rutgers University

Spring 2021 New Brunswick, NJ

- Thesis Title: Computational Methods to Understand the Association between Emojis and Emotions [PDF]

### M.Sc. in Computer and Info. Sciences

#### University of Alabama at Birmingham (UAB)

Spring 2015 Birmingham, AL

## RECENT PUBLICATIONS

### Selected First Authored Paper

- Assessing Emoji Use in Modern Text Processing Tools 🧑, ACL 2021 [Paper] [Github]
- EmoTag1200 🙌: Understanding the Association between Emojis 😊 and Emotions 🥰, EMNLP 2020 [Paper] [Video] [Github]

## ACTIVITIES

### Graduate Mentor, Rutgers University Douglass DIMACS Computing Corps (DDCC)

### PC Member and Reviewer:

#### ACL, EMNLP, CoNLL, SocialNLP, Computational Intelligence

### IBE Certification

#### Institute for Biomedical Entrepreneurship

2019 Boston, MA

### President

#### Rutgers Graduate Student Association (GSA)

2016-17 New Brunswick, NJ

### Emerging Young Talents

#### Prothom Alo - major daily newspaper

April 2010 Bangladesh

- For coordinating and developing first mobile SMS based registration system for undergraduate admission in Bangladesh

## SKILLS

Languages: Python, Java, Scala, C, PHP, HTML, JavaScript, CSS, SQL Technologies: AWS, PyTorch, Docker, Git, Kubernetes, WEKA, Jupyter Notebook