linkedin.com/in/saifulabu
github.com/saifulAbu

SAIFUL ABU

(915) 253-2866
sabu@miners.utep.edu

EDUCATION

MS in Computer Science. The University of Texas at El Paso (UTEP). GPA: **3.83** (August 2016).
Thesis Title: "Forecasting Customer Electricity Load Demand In the Power Trading Agent Competition Using Machine Learning."
BS in Computer Science. Bangladesh University of Engineering and Technology. GPA: **3.54** (April 2012).

INDUSTRY EXPERIENCE

Software Engineer	**Mir Technologies, Bangladesh**	**August 2013 – June 2014**

- Designed a VoIP dialer app for iOS by analyzing an existing Android app.
- Improved voice quality of the app by using a proper audio framework.
- Collaborated with customers, server-side developers, and client-side developers of other platforms.
- Objective-C, C++.

Software Engineer	**Hi-Tech Bangla, Bangladesh**	**June 2012 – July 2013**

- Developed a complex radar simulator for the Bangladesh Air Force.
- Increased team performance by introducing version control and selecting appropriate technology.
- Collaborated with the customers for requirement analysis and presented software updates.
- Java, C++.

Intern Software Engineer	**SDSL, Bangladesh**	**December 2011 – June 2012**

- Fixed rapid battery consumption problem of an Android device by optimizing an existing app.
- Added new functionality to the existing app.
- Java, Android.

PROJECTS

- **Electricity Demand Predictor** (2016). Developed machine learning based electricity demand predictor. Reduced prediction error from 31% to 13%. Java, Weka, Spring Framework.
- **Enigma Simulator** (2016). Developed World War II cryptographic device simulator. Hobby project. Java.
- **Healthy Work** (2016). Developed a smartwatch app that helps prevent injuries caused by repetitive computer usage. Hobby project. C++, Pebble smart watch platform, Pomodoro principle.
- **Automated Poker Playing Agent** (2015). A successful poker playing agent (first place) for the tournament of Artificial Intelligence class. Java, Breadth First Search.
- **Phone Based Coffee Ordering System** (2015). An automated system that receives the phone call of a customer, gives them a menu, takes order from them and notifies the vendor. PHP, MySQL, VXML.
- **Tomasulo's Algorithm Simulator** (2015). System architecture level instruction execution simulator. C.
- **Safe Browser** (2011). Developed a browser that prohibits websites with adult content. Naive Bayes, C#.

SKILLS

- Java, C++, C, Objective-C, Python, SQL
- Eclipse, Xcode, Visual Studio
- Windows, MacOS, Linux
- Weka, Matlab, Git

OTHER EXPERIENCE

Organizer	**Create, Compete, Contribute**	**April 2016 - July 2016**

Created and managed a programming club to motivate students to participate in competitive programming and open source projects.

Teaching Assistant	**CS Department, UTEP**	**June 2015 - July 2016**

Managed an average of 60 students per semester for the lab section of the "Data Structures and Algorithms" course using Java.

Research Assistant	**CS Department, UTEP**	**August 2014 - July 2016**

Developed electricity demand predictor as part of MS thesis.