

# William T. Stone III

1100 South Marietta Pkwy SE Marietta, GA 30060

[wstone4@students.kennesaw.edu](mailto:wstone4@students.kennesaw.edu) | 770.377.1296 | <https://larsque11.github.io>

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## WORK EXPERIENCE

### Graduate Research Assistant

#### Kennesaw State University

*April 2019-Current*

- Deploy machine learning techniques to aide in the detection of encrypted malware (expected project completion Spring 2020)
- Review and edit papers for journal submission
- Participate in weekly status meetings and student-led seminars on paper surveys
- Survey of recent advances in smart contract applications (co-author)

### Quality Assurance Analyst

#### Anheuser-Busch InBev

*April 2014-Current*

- Collect and maintain test data
- Analyze test data against quality standards
- Follow SOPs for repeatable processes to optimize transparency in testing and efficiency
- Identify quality-related issues, following reaction plans and escalating issues to appropriate personnel
- Manage concurrent tasks/projects
- Collaborate with teams and operations staff
- Maintain clean work areas to ensure accurate tests results and equipment functionality

### Math Tutor

#### Sylvan Learning Center

*August 2010-January 2013*

- Planned, prepared, and delivered lessons to grade school students
- Prepped students for class, state, and national exams
- Maintained and assessed records for student progress
- Provided customized assistance tailored to student needs
- Managed multiple lesson plans to serve up to 5 students simultaneously

## EDUCATION

### Master of Science in Computer Science

Thesis: "Rethinking the Weakness of Stream Ciphers and Its Application to Encrypted Malware Detection"

Kennesaw State University

*August 2017-Summer 2020*

### Bachelor of Science in Biomedical Engineering

Minor: Economics

Senior Design: Prototype of a lumbar support device to be used in the University's service trips to provide aid in Vietnam

Mercer University

*August 2008-May 2013*

## **PROJECTS**

- Big Data: Looking for trends in COVID-19 data to determine which communities (based on age, socioeconomic status, race, political dispositions) are being affected the most
- Machine Learning: Teaching an agent to avoid random obstacles in a Flappy Bird-style game using reinforcement learning and evolutionary approaches
- Algorithms: Investigating a “modernized” Gale-Shapley Stable Marriage Algorithm by minimizing bias found in the current implementation
- Database Design: Investigation of the Yelp Educational Dataset using MongoDB
- Hardware/OS: Analysis of Sysplm, a novel programming language which was translated and deployed to an Arduino for testing

## **TECHNICAL SKILLS**

### **Programming Languages**

Python, Java, Go, C

### **Data Analysis and DBMS Tools**

SQL/MySQL, MongoDB, Apache Spark, MS Excel, Hadoop, Apache Kafka, MATLAB

### **Frontend and Development Tools**

Android Studio, Firebase for Android, XML, HTML/CSS, Node.js

### **Miscellaneous**

Linux, Docker, Git, LaTeX, MacOS, Windows

## **RESEARCH INTERESTS**

Artificial Intelligence, Machine Learning, Information Security, Operations Research