

MATTHEW BIERMAN

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EDUCATION

Expected Dec 2019 The University of Texas at Dallas
Bachelor of Science in **Computer Science** **GPA: 3.96**

LEADERSHIP ROLES

Dec 2017 – Present Association for Computing Machinery at UT Dallas • **Vice President**

- Leading the largest computer science organization at UT Dallas and overseeing its operations across five divisions, with over 30 officers and thousands of members.

Aug 2017 – May 2018 Student Success Center at UT Dallas • **Supplemental Instruction Leader**

- Facilitated interactive group study sessions for the *Discrete Mathematics for Computing I* course.
- Received the **Most Improved Award** for the Fall 2017 semester.

EMPLOYMENT

Jun 2017 – Jul 2017 Clear • **Ambassador** • Las Vegas, NV

- Enforced and maintained airport security measures while also creating a welcoming customer experience that promoted the convenience of the service.

Jul 2015 – Aug 2015 TLC Computer Solutions • **Tech Support Intern** • Las Vegas, NV

- Assisted in troubleshooting hardware and software issues.
- Serviced both Mac and Windows PCs for customers in person, over the phone, and remotely.

SKILLS

PROGRAMMING LANGUAGES Java, C++, Shell (sh/bash), HTML, CSS, JavaScript, MIPS Assembly, R, Scala
FRAMEWORKS / PLATFORMS jQuery, Bootstrap, Apache Spark, Apache Hadoop

PROJECTS

Smart Lock

- **Bash (Shell), JavaScript**
- Developed **Bash** scripts to check all MAC addresses on a network using **arp-scan**, compare found devices with Access Control List to lock/unlock door, and export data to log files and frontend.
- Developed data visualization charts using **JavaScript** with **Chartist.js** to display the frequency of whitelisted users on a given network.
- Won **first place** in *ACM Projects*, worked with a team of five using **Agile** software development.

Portfolio Website

- **HTML, CSS, JavaScript, jQuery, Bootstrap 4**
- Developed a dynamic animation of **Conway's Game of Life** as the background, with random initial state generation and cell color changing based on scroll height.
- Created a responsive, one-page layout with an About Me/Contact page and project showcase.

viewar

- **Unity, C#, Vuforia, HTML, CSS, JavaScript, jQuery, Bootstrap 4**
- Created an **augmented reality** catalog using image targets to display 3D objects in real-time.
- Developed a responsive, one-page demo furniture catalog to demonstrate industry use cases.
- Won **second place overall** at *CodeRED Exploration 2017*, a University of Houston hackathon.

March Madness 2018 Prediction

- **R, SparkR**
- Predicted outcomes for each game of the March Madness 2018 Men's Tournament.
- Performed data pre-processing, feature engineering, and model training using logistic regression.
- Placed in the **top 30%** for the *Google Cloud & NCAA ML Competition 2018-Men's* Kaggle competition and in the **top 1%** for the *Capital One NCAA March Madness Bracket Challenge*.