

Emerson E. Spradling

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EDUCATION

Trinity University, San Antonio, Texas
Bachelor of Science in Computer Science
Minor in Business Administration

May 2021
Cumulative GPA: 3.85

SKILLS

Programming Languages: C, C++, Scala, Apache Spark (Scala/SQL), SQL, Java, Python, Haskell, R, Processing
Operating Systems: Windows, Linux, OS X
Environments: Eclipse, Microsoft Visual Studio

RELEVANT COURSEWORK

Big Data and Machine Learning, Principles of Algorithms, Principles of Data Abstraction, Principles of Software Engineering, Introduction to Graphics, Principles of Computer Design, Principles of Functional Languages, Low-Level Computing, Discrete Structures, Fundamentals of Information Systems

PROJECTS

Chicago Transportation, Big Data and Machine Learning, Trinity University September - December 2019

- Cleaned and processed Chicago taxi data (72 gb) for use in distributed computing using Apache Spark in Scala
- Analyzed data set using machine learning algorithms such as Multilayer Perceptron and K-Means Clustering
- Produced graphical representation of findings in report

CONETFUR, Principles of Functional Languages, Trinity University October - December 2018

- Designed a working game solver algorithm recursively for the game Connect 4 with a board size of NxM slots using the functional language Haskell
- Used GitHub to effectively collaborate on the project in a team setting
- Modeled Connect 4 and constructed an AI competitor using game-tree algorithm

WORK EXPERIENCE

Residential Life, Trinity University, San Antonio, Texas

Residential Assistant August 2019 - Present

- Mentor and advisor to 20 first-year students to help residents transition into college life
- Educate residents about student services on and off campus and make referrals accordingly
- Communicate and enforce policies consistently to ensure student safety and community well-being

Texas Capitol Travel Information Center, Texas Department of Public Transportation, Austin, Texas

Travel Advisor Intern May 2017 - August 2019 (Seasonal)

- Provided travel information for Austin and other regions of Texas to 60+ people per day
- Researched and problem-solved travel information questions
- Adjusted communication style to provide customer service to national and international visitors

CAMPUS INVOLVEMENT

Association of Computing Machinery, Trinity University August 2018 - Present
Trinity Distinguished Representatives, Trinity University January 2019 - Present
Symphonic Wind Ensemble and Orchestra, Trinity University August 2017 - Present
Hand Bell Ensemble, Trinity University August 2019 - Present

AWARDS AND HONORS

Trinity University Dean's List December 2017 – December 2019
Trinity University Trustee's Scholarship August 2017
Trinity University Baker Duncan Music Scholarship August 2017