

# Matthew Barton

San Antonio, TX

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## EDUCATION

**Trinity University** – San Antonio, TX

May 2022

Bachelor of Science in Computer Science, Minor in Mathematics

Cumulative GPA: 3.56 | Major GPA: 3.73

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## NOTABLE COURSEWORK

Artificial Intelligence, Game AI, Algorithms, Database Systems, Data Abstraction, Functional Programming, Java Seminar, Advanced UNIX Tools, Differential Equations & Linear Algebra, Probability & Statistics

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## SKILLS

**Principles:** Object-Oriented Programming, AI, Database Systems, Algorithms, Data Structures

**Languages:** Java, Scala, Haskell, XML, MATLAB, C++, Python, C, SQL, Bash, R

**Technologies:** SWT, Eclipse, IntelliJ, Vim, Atom, Git, Subversion (SVN)

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## RELEVANT EXPERIENCE

*Trinity University – San Antonio, TX*

**Association for Computing Machinery (ACM) Tutor**

August 2019 – Present

- Assist 3-4 Computer Science students per shift with class content and homework assignments in person and remotely via Discord

**Federal Work Study Student Assistant – Coding**

October 2018 – December 2018

- Completed 5 independent study and online Python coding courses

*SRC Inc. – Remote*

**Software Engineer Intern**

May 2020 – August 2020

- Resolved various tickets that ranged from debugging, redesigning UI elements, and implementing new usability features in Java
  - Researched feasibility of replacing a grid system implementation to enhance the software's performance and maintainability
  - Wrote 10-page technical document including a recommendation based on data gathered from research
  - Developed new View for the Eclipse RCP Application by constructing backend model representations and designing a frontend system to display the models
  - Collaborated with full-time developer on new View to ensure project's completion after my departure
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## INVOLVEMENT

**Trinity University** – San Antonio, TX

Team Member, Intramural Basketball

September 2019 – Present

Member, ACM

August 2019 – Present

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## AWARDS

**Dean's List** – semester GPA above 3.65

Spring 2020

**Trinity University Trustees' Scholarship** – \$88,000 over four years

August 2018