

# Mitchell Schaller

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## Education

*University of Wisconsin-Madison: 3.89/4.00 GPA, Bachelor of Science, Computer Sciences expected May 2020*

- Academic Excellence Scholar, Dean's List x3, Sage Corps Fellow
  - Computer Science Courses: Intro to Computer Systems, Machine Organization and Programming, Programming 1-3
  - Relevant Math: Linear Algebra, Discrete Mathematics, Calculus
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## Skills

**Languages:** Java, JavaScript, Elixir, SQL, HTML, Python, Go

**Frameworks:** Node.js, Phoenix

**Database:** Firebase, MariaDB, MySQL

**VCS:** Github, Sourcetree

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## Professional Experiences

Software Engineering Intern, Zumata, Singapore

June 2018 - August 2018

- Identified a data gap between hotel suppliers and API users and developed a new intermediary Phoenix application with Elixir, scaling with Docker and Jenkins integration
- Designed custom unit tests across front and back end to ensure application functionality and security
- Wrote custom SQL queries within MariaDB using fulltext indexing to optimize database performance across a massive list of 500,000+ properties

Student Programmer, Space Science and Engineering Center, Madison

December 2017 – Present

- Adopted a custom suite of Linux-based software called McIDAS to monitor satellite data integrity and report faults
  - Made improvements to the UX and automated checks so that non-technical students can report on data easily
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## Projects

Coding4Good, Campus Organization, Madison

December 2017 – Present

- Lead a team of eight student developers to create an application using Android Studio and Firebase for a food-accessibility advocacy group that informed at-risk students of free garden produce and other resources
- Currently joining the board to organize and facilitate future outreach projects

TEALS, Supported by Microsoft Philanthropies

June 2018 – Present

- Remotely teaching an introductory computer science course for New Holstein High School
- Collaborating with a teaching team of three volunteers and an on-site instructor to ensure quality educational material and deeper student understanding