

# Ashwin Kolla

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## Education

### B.S. Computer Science, Mathematics Minor

Expected May 2020

University of Minnesota-Twin Cities, College of Science and Engineering

Minneapolis, MN

Cumulative GPA: 3.98 / 4.0

Honors & Scholarships: Dean's List, 3M Scholarship, Presidential Scholarship

## Professional Experience

### Infinite Campus, Software Engineer Intern - Data Science

January 2018 - August 2018

- Refactored automated ETL process for data collection of tool usage by implementing bcp utility into preexisting Python codebase which decreased execution time by approximately 75%
- Created census table by querying metadata from all customers' backup production databases. Identified oddities and trends in census table data by creating visualizations in Metabase
- Helped revitalize an internal Shiny application in R for product usage tracking data used by Client Executives by creating Python DAG and utilizing Airflow to pull fresh data weekly
- Handled internal requests for data from 4 other teams by writing SQL queries and consolidating the appropriate data
- Practiced modern agile methodologies and presented completed work biweekly to interested stakeholders

### University of Minnesota, Undergraduate Teaching Assistant

September 2018 - Present

- Teaching Assistant for Intro to Algorithms, Data Structures, and Program Development course taught in Python and Java
- Work along with other teaching assistants to smoothly run lab sessions of 30+ students
- Conduct office hours weekly and debug and grade students' assignments

## Personal Projects and Extra Curriculars

### Personal Website, <https://ashwinkolla.github.io>

September 2018

- Utilized Jekyll and GitHub Pages to create personal website as a medium for sharing projects

### MN Quants, University of Minnesota, Software and Data Engineer

September 2018 - Present

- Consult Carlson Funds Enterprise (\$38MM) to improve risk-adjusted performance for Equity and Fixed-Income portfolios.
- Develop trading and trade execution strategies by modeling market microstructure
- Construct dashboard for MN Quants wiki page using Angular and Node.js

### Block Game AI, Personal Project

September 2018 - Present

- Collaborate with another individual to construct genetic algorithm and neural network to play block jump game
- Used Java and Processing to construct logic and UI for game

### Society of Asian Scientists and Engineers, Member

September 2016 - Present

- Participate in SASE Pals by mentoring high school student and providing insight and advice about college
- Attended seminars with professionals of various engineering fields to gain valuable insight

## Technical Skills

**Programming Languages:** Highly Proficient in **Python, Java, C, SQL** Proficient in **OCaml** Learning **R, C++**

**Tools:** Highly Proficient with **Git, Airflow, Docker, Jira, Metabase** Proficient with **Graylog**

**Certifications:** Oracle Certified Associate, Java SE 8 Programmer