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 by creating a Python Airflow DAG that pulled fresh data weekly. Increased application usage by 100%
- 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, *Software and Data Engineer*   September 2018 - Present
- Consult Carlson Funds Enterprise ($38MM) to improve risk-adjusted performance for Equity and Fixed-Income portfolios
- Construct dashboard for MN Quants to visualize module data using AngularJS and Node.js
- Develop trading and trade execution strategies by modeling market microstructure

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 GUI for game

Society of Asian Scientists and Engineers, *Member*   September 2016 - Present
- Participate in SASE Pals by mentoring high school student and providing insight about college
- Attended seminars with professionals of various engineering fields to gain valuable insight

Intramural Soccer, *Captain*   February 2017 - Present
- Organized team of 10 players to participate in UMN spring soccer intramural league

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