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: 3.95 / 4.0
Honors: Dean's List, 3M Scholarship, Presidential Scholarship, Donald L. Johnnson Scholarship

Professional Experience

BP, *Software Developer Intern - Digital Security*   May 2019 - August 2019
- Designed and implemented web scraper in Python and AWS to detect sensitive BP information stored in public repositories
- Utilized Naïve Bayes machine learning algorithm to create classifier that reduced false positives produced by web scraper by over 60%
- Practiced modern agile methodologies with global team primarily based in London and India and presented completed work biweekly to 10 stakeholders

Infinite Campus, *Software Engineer Intern - Data Science*   January 2018 - August 2018
- Refactored automated ETL process for data collection of customer tool usage by implementing a bulk copy tool into preexisting Python codebase which decreased execution time by 75%
- Created census table for data analysis by using SQL to query metadata from all customers' backup production databases
- Revitalized an internal Shiny application in R for product usage tracking data by creating an Airflow DAG in Python that pulled fresh data weekly. Increased application usage by 100%

University of Minnesota, *Undergraduate Teaching Assistant*   September 2018 - Present
- Teaching Assistant for Intro to Algorithms and Data Structures course taught in Java and Python
- Work with other teaching assistants to smoothly run lab sessions of 30+ students
- Conduct office hours weekly to help debug students' assignments and offer study suggestions

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
- Use Scala and JSON to create data engine that feeds TD Ameritrade API data to Kafka cluster for creating a data pipeline used in making algorithmic trades
- Consult Carlson Funds Enterprise ($38MM) to improve risk-adjusted performance for Equity and Fixed-Income portfolios
- Construct dashboard using Angular and Node.js to visualize data for quantitative research teams

Society of Asian Scientists and Engineers, *Member*   September 2016 - Present
- Mentor 2 high school students weekly by providing insight about STEM and college
- Attended seminars with professionals of various engineering fields to gain valuable insight

Intramural Soccer, *Captain*   February 2017 - Present
- Organized team of 15 players to participate in UMN soccer intramural league

Technical Skills

Programming Languages: Highly Proficient in **Python, Java, C, SQL** Proficient in **C++** Learning **Scala, R**
Tools/Frameworks: Highly Proficient with **Git, Airflow, Docker** Proficient with **AWS** Learning **Angular**
Certifications: Oracle Certified Associate, Java SE 8 Programmer