

Ashwin Kolla

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Professional Experience

Target - Minneapolis, MN

Senior Software Engineer - Transportation

June 2022 - Present

Software Engineer - Transportation & Digital Marketing

July 2020 - June 2022

- Second leading contributor to a modern distributed system for automatically estimating, auditing and paying freight invoices using Kotlin, Kafka, PostgreSQL, SpringBoot and React/Typescript which replaced legacy third party system. Application handles 100% of carriers and \$500+ million annually
- Served as interim lead engineer for 3 months after team merger and accomplished being primary point of contact, heavily influencing team roadmap and partnering across the team to ensure deadlines were met
- Collaborated in design and co-led development for a scalable, fault-tolerant app using Kotlin, Ktor and Kafka to provide accurate fuel estimates for freight moves, reducing expenses by ~\$1 million annually
- Architected multi-system API integration to calculate accurate distances between shipping locations allowing for more precise invoice estimates reducing manual work by business and improving carrier relations
- Created, documented and published a multi-module library containing utilities for generating data and deserializing sample data allowing teams to write more effective and maintainable tests. Presented the library in the Transportation portfolio's biweekly tech talk event and is currently used across 30 repos
- Mentored 8 engineers of various backgrounds via frequent check ins, pair programming and code review
- Designed, implemented and deployed full stack feature to auto-assign freight invoices that failed systematic processing to the business team for manual intervention. Streamlined the previous manual assignment process by ~10 hours weekly
- Built a synchronization feature to coordinate dependent cron jobs using Python, MongoDB, Oozie and Hive which aided in the successful go-live of a digital content optimization engine

BP - Houston, TX

May 2019 - August 2019

Software Developer Intern - Digital Security

- Designed and built web scraper using Python and AWS Lambda to detect sensitive BP information stored in public repositories
- Utilized Naïve Bayes machine learning algorithm to construct classifier that reduced false positives by ~60%

Infinite Campus - Blaine, MN

January 2018 - August 2018

Software Engineer Intern - Data Science

- Refactored automated ETL process for collecting customer application usage data by integrating a bulk copy library into a preexisting Python codebase which decreased execution time by ~75%
- Revitalized internal app that visualized product usage data by creating an automated data pipeline to pull fresh data weekly utilizing Python and Apache Airflow which increased usage by 100%

Technical Skills

Languages: Highly Proficient in **Kotlin, Python, Java, Groovy** Proficient in **Scala**

Frameworks/Tools: PostgreSQL, Kafka, Spring, Ktor, Gradle, Docker, MongoDB, CICD, Microservice Architecture, Git

Education

B.S. Computer Science, Mathematics Minor

Graduated with High Distinction May 2020

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

Minneapolis, MN

Cumulative GPA: 3.93 / 4.0

Honors: Dean's List, 3M Scholarship, Presidential Scholarship, Donald L. Johnson Scholarship