Ajay Benno

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EDUCATION

CARNEGIE MELLON UNIVERSITY
B.S in Electrical and Computer Engineering
Minor in Computer Science
May 2019 | Pittsburgh, PA

METHACTON HIGH SCHOOL
Grad. May 2015 | Collegeville, PA

COURSEWORK

GRADUATE
- Database Systems

UNDERGRADUATE
- Functional Programming
- Telecommunication Networks
- Parallel and Sequential Data Structures
- Parallel Arch and Programming

SKILLS

Java ▪ React ▪ Javascript
Snowflake ▪ Kafka ▪ Airflow
Teamcity ▪ Terraform ▪ Kubernetes
Redis ▪ HTML/CSS ▪

PROJECTS

SQLITE STORAGE MANAGER
Fall 2017
- Implemented a buffer pool manager, concurrent B+ tree, and write ahead logging for the SQLITE DBMS.

RESEARCH

WI-FI BASED MATERIAL SENSING TO AUGMENT AUTONOMOUS VEHICLES
Spring 2018
- Using off-the-shelf WiFi cards to classify the material of an environmental object (eg. wood, metal, human) using its physical properties, and to determine what angle the object is at.

EXPERIENCE

YEXT - ANALYTICS TEAM
Software Engineer 4 | Fall 2019 - Current | New York, NY
- Received top performer for both 2020 and 2021 performance reviews - reserved for top 5% of company
- Prototyped KafkaConnect for the company; Currently being used to stream messages from Amazon SQS to Kafka. Handling over 40 million messages per day.
- Owned Intelligent Search Tracker, a large scale data scraping service. Interfaced with third party vendors to handle data integrity issues and increase reliability.
- Designed a system to automatically propagate data delays from source data systems and surface that to customers.
- Deployed tracing system for our deployment pipeline to help aggregate deployment issues at scale.
- Designed Streaming Ingest Pipeline from utilizing Kafka transactions to using MySQL to manage exactly-once semantics.

YEXT
Software Eng Intern | Summer 2019 | New York, NY

- Improved Intelligent Search Tracker to automatically detect failures from a third party vendor and pause processing to prevent further issues.

REDFIN - PERFORMANCE ENGINEERING
Software Eng Intern | Summer 2018 | San Francisco, CA
- Integrated Google Lighthouse into internal performance tests; Lighthouse provided a new lens on performance and is used to catch unintended regressions
- Engineered an efficient method of tracking and logging non-responsive interactions across the website; Data will help identify pages that are key sources of customer frustration

CAPITAL ONE
Software Eng Intern | Summer 2017 | San Francisco, CA
- Implemented a microservice to aggregate data and pipeline it into a model to predict credit card application fraud; Built a REST API for easy access.
- Worked on adding H20.ai support to clipper, an open source prediction serving system.