

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 ▪ RabbitMQ ▪ Git
Lightstep ▪ AWS ▪ MySQL
Grafana ▪ Prometheus

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 distributed tracing system for our CI/CD 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 H2O.ai support to clipper, an open source prediction serving system.