

Wang Chen

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EDUCATION

University of Washington

Seattle, WA

- Master of Science in Information Management, specialized in Data Science & Engineering
- Selected Coursework: Machine Learning, Interactive Information Visualization (**D3.js**), Software Architecture (**TypeScript**), Full-stack Software Development (**Node.js**, **React**, **AngularJS**, **MongoDB**), Advanced Database Internals and Design (**SQL**, **NoSQL**)
- Teaching Assistant of INF552 (PG) Interactive Information Visualization (**D3.js**, **Tableau**)

09/2016 – 06/2018

SUMMARY OF SKILLS

- Programming languages: **Python**, **JavaScript**, **SQL**, Java, Scala, HTML5, CSS3, TypeScript
- Frameworks and tools: **Hadoop**, **Spark**, **AWS Certified Solutions Architect**, **Hive**, **Druid**, **Pig**, **Node.js**, **Kafka**, **Cassandra** (NoSQL)

INDUSTRY EXPERIENCES

Discovery, Inc

Seattle, WA

Big Data Engineer

01/2020 – present

- Designed and deployed large-scale, high performance data platforms with **AWS** cloud infrastructure to drive business decisions and improve customer engagement (**Terraform**, **Jenkins**)
- Built automatic and scalable streaming/batch data ETL pipelines (**Kafka**, **Spark**, **Docker**) to collect and process data sets
- Implemented **A/B testing** pipelines and platforms which enables fast feedback loops and more data-informed decision-making process
- Built and maintained **recommendation engine** with streaming/batch data processing (**Flink**, **Spark**) that increased engagement by 50%
- Integrated alternative open-sourced real-time/historical analytics database (**Apache Druid**) and data visualization tool (**Superset**) that realized high-performance and flexible data explorations
- Increased efficiency by 40% by designing and building self-serve tools (**AWS**) that enable non-tech users to deploy light ETL tasks

Ernst & Young

Seattle, WA

Data Engineering Consultant (Clients: Microsoft, Nike, T-Mobile)

06/2018 – 01/2020

- Created, maintained and documented a set of web/mobile analytics metrics and automated ETL data pipelines that better captured day-to-day user behaviors (**Streaming/Batch**) and helped make short/long-term business decisions
- Designed and implemented scalable data warehouses with Cloud infrastructure (**AWS**, **Azure**) that supports analytical solutions over product performance (**Redshift**, **S3**, **EC2**, **T-SQL**, **Python**, **Hive**)
- Built Data Analytics/Machine Learning platform (**Spark**) and developed a web-based data exploratory interface (**Node.js**, **D3.js**) that allows clients to explore data freely and make data-driven decisions more efficiently
- Tell data stories that describe analytical to diverse audiences (C-level communications)

Ernst & Young

Seattle, WA

Technology Consulting Intern, Data Engineering & Analytics (Client: PSE)

06/2017 – 08/2017

- Designed data models and created reusable automated ETL tools using **Python** and **Excel (VBA)** to collect data from multiple sources
- Developed and maintained an interactive web-based reporting dashboard (**React**, **D3.js**) that presented workflows and key indicators
- Communicated with end-users, gathered business requirements, and delivered data analysis reports in professional presentations

Amazon Lab126

Shenzhen, China

Business Analyst Intern

05/2016 – 09/2016

- Used **MySQL** to develop an internal database for HR department to support their daily operations including recruiting and training
- Built reporting dashboards and generated weekly performance reports and monthly newsletter for HR department with **Tableau**
- Maintained and automated reports generation from database by writing **SQL** and **VBA** scripts, increasing efficiency by almost 50%

PROJECT EXPERIENCES

Broadband Data Analysis and Visualization Capstone – Data Visualization

Seattle, WA

Explored broadband usage data and built interactive visualization dashboards to help government make decisions

12/2017 – 06/2018

- Designed and developed a scalable data warehouse using star schema that successfully handled petabyte-level data
- Automated data ingestion flows (**Python**, **Spark**) and loaded aggregated data into HDFS for exploratory analysis and reports (**Hive**)
- Visualized data in an interactive web-based portal and created interactive infographics with **Node.js**, **D3.js** and **Tableau**

Social Media Data Mining Capstone – Data Science & Engineering

Seattle, WA

Developed ingestion pipelines and data processing platform for real-time social media sentiment analysis

01/2017 – 06/2017

- Built a high-performance data infrastructure using **Apache Kafka**, **Spark**, and **Cassandra** to prepare training dataset
- Used **Python** packages (**sklearn**) to build **Naïve Bayes Classifier** based on sentiment-labeled data that reaches 97% accuracy
- Conducted **regression analysis** between social media sentiment scores and stock performances across different industries
- Developed a web-based dashboard that visualizes real-time streaming data and model fitting results with **Node.js** and **D3.js**