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Chun Yi Yang

OBJECTIVE

Worked at Facebook Global Data Operation Engineering Team, experience in web development by React, PHP/Hack, GraphQL and Jest, as well as big data framework such as Hadoop/Spark, AirFlow. Seeks for fulltime software engineer position.

COMPUTER SKILLS

- **Programming Languages:** Python, PHP/Hack, Java, Scala, HTML/CSS/JS ES6, GraphQL, MySQL, PostgresSQL, MongoDB
- **Framework:** React, Redux, Relay, Node,js, Jest, Enzyme, Flask, Hadoop, Spark, Kafka, Airflow, Hive, Presto
- **Miscellaneous:** AWS (EC2, DynamoDB, S3), Git, Mercury, Tableau, RESTful, Data Analysis, Machine Learning

EMPLOYMENT

Software/Data Operation Engineer   **Facebook**, CA   **03/2019 – 02/2020**

- Work at Facebook via Crystal Equation. Participate in building and maintaining data pipeline management center with **JS**, **React**, **React-Redux, React-Route**, **GraphQL**, EntSchema and tested by **Jest**. More than 11,000 data pipelines are monitored through this new developed tool and help to **clean SLA and reduce incident management time by 40%**
- Designed, implemented and test chatbot auto self-service to provide a real-time alerting for monitored pipeline instance information and automates failures escalation to pipeline owners, which delivers efficiency by **reducing 15% customer escalation support**
- Implement machine learning framework of customer escalation and task automation. Design data pipeline flow and data warehouse schema. Daily batch process data by utilizing ETL skills to process and log data by FBLogger, **Dataswarm** and **Presto SQL**
- 1st tier data operation as a service support on pipeline monitoring in global scale for Facebook internal team. Clients increases from 60+ to 170+. Growths 280% annually

Software Engineer Intern   **Toii Virtual Gaming Lab**, NY   **09/2018 – 02/2019**

- Implemented **RESTful APIs** endpoints to make HTTP requests and fully tested by **Postman** for a mobile app game
- Designed architecture and response program solution according to player attributes and game progress
- Worked with **Flask framework**, **Flask-SQLAlchemy** ORM to manage backend model mapping to **PostgreSQL**

PROJECTS

Audible Social Media   **Spring / 2018**

- Programmed a web application that categorizers users' social media feeds and converts text feeds to streaming audio clips
- Ingested Twitter data with **Kafka** and stream processed by **Spark Streaming** to stored data on **AWS DynamoDB**
- Deployed service on **AWS EC2** machine, batch processed user tweets to audio and stored on **AWS S3**

Online Music Service Churn Prediction   **Fall / 2017**

- Built a predictive model on whether users will renew service by **Python** and **scikit-learn**
- Applied feature engineering to generate 30 new features and improved accuracy from 86.1% to 95.7%
- Designed data schema optimized space and speed, transformed raw data to training data to save data space by 95%

EDUCATION

New York University, New York, NY,   **09/2016 – 06/2018**

- M.S. in Computer Science
- Core Courses: Algorithm, Database, Operating System, Data Communication and Network, Cloud Computing, Big Data Application and Development, Machine Learning

National Taiwan University of Science and Technology, Taipei, Taiwan   **09/2012 – 06/2014**

- M.S. in Industrial Management
- Core Course: Objected Orientated Programming, Data Mining Application, Computational Intelligence in Engineering, Numerical Analysis