Yaowei Zong

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EDUCATION

New York University   New York, NY
Master of Science in Computer Science; GPA: 3.57/4.00   *Sep 2020 – May 2022*

- ○ DevOps and Agile Methodologies | Deep Learning | Realtime and Big Data Analytics | Programming Languages | Operating Systems | Database Systems

Colorado State University   Fort Collins, CO
Bachelor of Science in Computer Science; GPA: 3.78/4.00   *Aug 2015 – Dec 2017*

- ○ Introduction to Artificial Intelligence | Introduction to Distributed Systems | Software Engineering | Introduction to Computer Graphics | Algorithms – Theory and Practice | Algorithms and Data Structures

PROGRAMMING SKILLS

- **Languages**: Python, Java, C, C++, JavaScript

- **Technologies**: SQL, Git, Agile, CI/CD, Unit Testing, Integration Testing, Docker, MongoDB, NodeJS

WORK EXPERIENCE

Skyoo Tutors, LLC   Fort Collins, CO
Full Stack Developer Intern   *May 2018 – Feb 2019*

- ○ Implemented responsive front-end user interface using VueJS (utilized MUSE-UI component library) for better information representing and faster mobile experience.
- ○ Implemented required RESTful APIs (using Django REST Framework) to handle requests for data to and from Postgres database, used Django Admin site for quick data model testing and easy internal data management.
- ○ Proposed and led two major projects (Front Pages Re-modeling and User Dashboard System Implementation): each took 2 months from project proposal to product delivery, followed Lean Project Management Principles.
- ○ Integrated websites with multiple CDN services including jsDelivr, Tencent Cloud COS, and AWS S3: improved availability by 30 percent and reduced websites loading time by 50 percent.

PROJECTS

- **E-commerce Website Orders REST API**   *Summer 2021*
  - ○ Developed the Orders RESTful backend service for an E-commerce website followed Microservice Architecture using Python Flask and PostgreSQL.
  - ○ Worked in a self-directed Agile team, collaborated with teammates through GitHub, used Kanban board (ZenHub) to track Sprints. Established reproducible development environment using Vagrant, VirtualBox and Docker.
  - ○ Built an automated CI/CD Pipeline with TDD/BDD tests, deployed to IBM Cloud. Added Swagger API Docs using Flask-RESTX framework.

- **Forecasting Street Speed using Alternative Datasets**   *Fall 2020*
  - ○ Performed time series forecasting on NYC street speed utilizing HDFS, PySpark, and Facebook Prophet.
  - ○ Applied data cleaning and pre-processing on Hourly Street Speed (NYC Uber Movement, 2019-2020 72GB), NYC Historical Weather, and Motor Vehicle Collisions using MapReduce with NYU HPC.
  - ○ Evaluated 2 models on 295 different street speed time series, measured average RMSE as 19.5 for the baseline model (only past speed data) and 16.55 for the optimal model using linear trend with multiplicative seasonality and added regressors (weather and collisions).

HONORS AND AWARDS

- **Hackathon**: 3rd Place Team in 2017 RamHack, Virtual/Augmented Reality Hackathon   *CSU Oct. 2017*
- **Dean's List**: 4.0 GPA for both fall and spring semesters, College of Natural Sciences   *CSU 2015-2016*