Junchen Pan

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RELEVANT EXPERIENCE

Software Engineer Intern, *Clobotics, Bellevue WA* *Jan-Apr 2019*

- Added real-time monitoring and alerting by integrating Prometheus to current services
- Optimized metrics collecting by implementing metrics aggregator by Flask
- Decreased server loads by 30% by implementing client metrics collector with message queue
- Handled concurrent requests by Nginx and Gunicorn, able to monitor current 100 machines
- **Leveraged knowledge in Backend Dev**, DevOps, Docker, Prometheus, Git, **Python**, Flask

Algorithm Researcher, *UW, Seattle WA* *Jan-Jun 2018*

- Divided the final goal into several subproblems and designed automating pseudocodes
- Reduced the time on operational computing by 90% by implementing a series of automating algorithms
- **Leveraged knowledge in** Problem-Solving, Coding skills, **Data Structure**, Python

IT Intern, *BAIC, Beijing China* *Jun-Aug 2017*

- Performed SQL queries daily to inspect abnormalities
- Giving solutions to common computer problems
- **Leveraged knowledge in SQL**, Basic Database Management

PROJECTS

Confusion Detector Web App--Hackathon Project(github.com/HuskyDanny**)** *Jan 2019*

- Decreased training and processing time by 50% by automating photo data pipeline
- Trained an ensemble model, able to detect a confusion expression
- Integrated line chart real-time visualization with backend services
- **Utilized: Web development**, Python, Flask, Socketio, Sklearn, Html, Javascript, Azure cloud

Titanic Challenge(datafolio.info/my-project-1**)** *Nov 2018*

- Data cleaning by Python and machine learning training by Sklearn, achieving 80% accuracy rate, results ranked at Top15%
- **Utilized:** Sklearn, Python, Feature Engineering, Model Selection and Hyper Tuning skills

Data Storyteller(datafolio.info/blog/kaggleanalysis**)** *Sep 2018*

- Implemented several programs to clean public datasets
- Storytelling and visualizing cleaned datasets, achieved 1000+ views in total
- **Utilized:** Python, Pandas, Tableau BI tool, Open sources packages like fuzzywuzzy

Optimal Lineup/Dynamic Programming *Feb 2018*

- Implemented an algorithm to compute optimal fantasy football lineups subject to a salary cap constraint
- **Utilized:** Data structures, Java, Algorithm Concept(Knapsack)

EDUCATION

University of Washington, Seattle, WA *Sep 2014- Jun 2018*

B.S in Mathematics(Major GPA:3.47)

- **Relevant Courses**: Data Structure and Algorithm, Advanced Algorithm and Time Complexity, Database System, Java Programming I/II

TECHNOLOGIES

- **Languages**: *(Proficient):* Python, Java, SQL *(Familiar):* C#, Bash *(Basic):* Swift, Javascript, Html
- **Tools**: Docker, Tableau, Azure, Git, Rest API, JSON, SQLite, Mysql