Yuetian Li

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EDUCATION

Northeastern University, Khoury College of Computer Sciences, Boston, MA
Candidate for a Master of Science in Computer Science — Expected May 2021

Dalian Maritime University, Dalian, China
Bachelor of Science in Network Engineering — June 2018

SKILLS

Languages: TypeScript, JavaScript, Python, Java, C/C++, HTML/CSS, MATLAB, C#, Shell.
Tools: Git, React.js, Node.js, AWS Lambda, Docker, Jupyter, Pytorch, Scikit-learn, Elasticsearch.
Databases: NoSQL: DynamoDB, MongoDB. SQL: SQL Server, Oracle Database, PL/SQL.
Testing: Jest, JUnit, Python unittest, libcheck.

WORK EXPERIENCES

AMC Networks, New York, NY
Software Engineer Intern — August – December 2020

- Deliver software solutions for **AMC channel**, **BBC America** and various brands under AMC Networks.
- Construct and update AMC Networks' websites with **PHP**.
- Build online platform for AMC's entertainment contents with **JavaScript**, **React**.
- Work on the internal content management system with **Drupal**.

Slalom Build, Boston, MA
Software Engineer Intern — June – August 2020

- Built mobile app frontend UI with **React Native** and **TypeScript** for both **iOS** and **Android** platform.
- Built modern serverless backend APIs with **AWS Lambda** and **DynamoDB**.
- Built **Single sign-on** (SSO) login system, enabled users to login with third-party credentials.
- Utilized BitBucket and App Center for DevOps and building, wrote **Shell** scripts for **CI/CD** pipeline.

SELECTED PROJECTS

Object Oriented Development: Mock Stock Trading Application, group of 2

- Built an application that mocks the stock operations like creating portfolios, and buy/sell stocks.
- Got the real world stock prices for the system by querying Alpha Vantage API.
- Implemented the system and its GUI in **Java**, under **MVC** model and **OO Design patterns**.

Building Search Engine for News Articles, group of 3

- Built a search engine with algorithms including **TF-IDF**, **BM 25**, **PageRank** and **Linear Regression**.
- **Out-performed** Elasticsearch built-in search module by **3.7%** on average precision.
- Project homepage: https://github.com/liyt96/ML-pipeline-for-IR

Linux User-space Development, group of 2

- Implemented a user-space **thread libray** (named "qthreads", vs. the standard "pthreads" library) in **C**.
- Implemented a mostly-read-only version of a Unix-like **file system** using the FUSE library in **C**.

Understanding the Amazon Forest from Space with Machine Learning, group of 3

- Created a model to classify images of the amazon forest and get an **accuracy** of **94%**.
- Built the model with algorithms like **Decision Tree** and **Deep Learning** with Scikit-learn and Keras.
- Slides: http://liyt96.github.io/files/CS5100_AmazonRainforest_slide.pdf.