

Yu Liu

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Education

Northeastern University, Boston, MA

Candidate for Master of Science in Computer Science

Cumulated GPA 3.6/4.0

Relevant Courses: Intensive Foundation of CS, Discrete math and Data Structure, Computer System, Object-Oriented Design, Managing Software Development, Algorithm, Machine Learning, Web Development

*Sept. 2016 - Present
Expected graduation: Dec 2018*

Sun Yat-sen University, Guangzhou, China

Bachelor of Science in Material Science

Cumulated GPA 3.8/4.0

Relevant Courses: Database Management, Web Development, Algorithm

June 2016

Technical Knowledge

- Languages: Java(Proficient), C#(Proficient), Python(Familiar), C, Racket
- Database: MySQL, SQL Server, MongoDB, SQLite
- Front-end Technologies: HTML/CSS/JavaScript, MEAN(MongoDB, Express, AngularJS 2+, Node.js), TypeScript, jQuery, JSON
- Version Management Tools: Git, GitHub, Team Foundation Server, SVN
- Operating Systems: Windows, macOS, Linux

Work Experience

Grantham Mayo Van Otterloo & Co. LLC, Boston, MA

Front Office Developer

Jan. 2018 – Present

- Enhanced searching function in Cache Management system by adding a calendar widget and using TFS APIs.
- Developed a Performance Evaluation System that will be used for the whole technical team.

Puzhongyun Technology, Guangzhou, China

Intern Software Developer

Nov. 2015 – July 2016

- Led the team in designing business logic and database of the Library Management System.
- Designed and developed Library Management Software using WinForm (C#) connected to SQL Server through Microsoft ODBC.
- Collaborated with 3 teammates to develop the lawyer-oriented mobile app using Android Studio Developer Kit.
- Developed and presented a demo for clients based on HTML5 cross-browser compatible framework to run on mobile and browsers.

Hope Studio, Guangzhou, China

Intern Web Developer

Feb. 2015 – Aug. 2015

- Designed and constructed layout as the foundation for user-friendly and responsive interfaces using HTML/CSS/Bootstrap.
- Collaborated with 2 teammates to develop more than 5 official websites for colleges, building MVC framework through AngularJS and refactoring webpages using HTML/CSS/Bootstrap with a server side written in C#.
- Maintained active conversation with the client to ensure the site met his needs.

Academic Projects

Create Web App and RESTful API Server Using the MEAN Stack

Northeastern University, Boston, MA

Sept. 2017 – Dec. 2017

- Designed and constructed responsive webpages prototype using HTML/CSS/Bootstrap.
- Refactored static prototype into a dynamic Single Page Application (SPA) using AngularJS 4 and created Web services with the Express Node.js module which will access data through various HTTP requests.
- Implemented mongoose data models and schemas to persist and interact with a MongoDB instance and applied PassportJS to enforce security of login and registration modules, including sensitive views and securing access to APIs and Web services.

Machine Learning – Demand and supply analysis

Northeastern University, Boston, MA

August 2017 – Nov. 2017

- Implemented related algorithm (Mini-batch Gradient Descent, Ridge Regression, etc.) with NumPy and SciPy packages.
- Designed data analysis program in Python with modules demonstrating correlation analysis and run-time performance result.

Optimizing route for BPS transportation challenge

Northeastern University, Boston, MA

May 2017 – July 2017

- Established databases using MySQL on Azure to store traffic information of more than 20,000 students and 200 schools in the Great Boston Area, and developed logic of retrieving and manipulating data using JDBC.
- Designed algorithm to optimize route and bell times to lowest cost, using Google Maps API to get real-time traffic condition.
- Collaborated with teammates using GitHub, Jira and Confluence.

Toxicant Management Database System

Sun Yat-sen University, Guangzhou, China

Sept. 2015 – May 2016

- Designed and established databases using SQL Server that store toxicant information.
- Developed desktop software (Toxicant Management Database System) using WinForm (C#) that store toxicant information and manipulate SQL Server database with CRUD using JDBC
- Built connection between software and database so that clients in local area network could share data and modification.