

Jennifer Liu

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Objective

Looking for a full-time Software Engineer position starting May 2020

Education

Expected May 2020 Rochester Institute of Technology, Rochester, NY
Bachelor of Science: Computer Science
Immersion: Human Language Technology & Computational Linguistics
GPA: 3.72/4.0

Experience

Document and Pattern Recognition Lab at RIT: Research Programmer Fall 2020, Rochester, NY

- Contributed to the design and development of [MathSeer](#) web interface. The system aims to make finding mathematical information easier. Collaborating with PHD, masters, and undergraduate students with expertise in Imaging Science, Software Engineer, Information Retrieval, and Pattern Recognition to make this happen.
- Improving the accuracy of [SymbolScraper](#), a tool for extracting the identities and exact positions of characters in PDF documents using Glyph outlines, while substantially lowering computational cost.
- Tools:** VueJS, Javascript, Python, Java, Maven, Shell Script, Gitlab

Tencent: Backend Software Engineering Summer 2019, Shenzhen, China

- Provided user requirement analysis, design and programming support for enhancement of WeChat's Auto-Pay backend system. The feature, which allows users to pay monthly home utility bills (i.e electrical bill, cellular plans) is currently used by 889 million users.
- Tools:** C++, MySQL, Python, Microservices, Agile/Rapid Development, Code Versioning

Octopus Cards Limited: Software Engineer Summer 2018, Hong Kong, China

- Collaborated with existing members to launch the first prototype for enabling Wi-Fi on Octopus card reader hardware across all buses in Hong Kong.
- Automated Wi-Fi stress test process using Shell Script and C.
- Participated in discussion with clients (i.e 711, Park n Shop, Welcome) on requirement analysis. Based on client feedback, designed and engineered an android app that acts as a controller for RFID/NFC card readers (Demo: <https://vimeo.com/287880129>)
- Tools:** Java, Android Application Development, Shell Script, C

RailComm: Embedded Software Engineer Fall 2017, Fairport, NY

- Architected and developed a database web application that tracks warehouse inventories to notify supply chain team about hardware warranty expirations, and implemented single sign-on using Active Directory.
- Developed a web application using Flask and Python that triggers actions on hardware, which allows users to view hardware I/O results without using Linux Command Line.
- Tools:** Javascript, AngularJS for front-end, Flask, Python, MySQL, C, C# for backend

Orient Overseas Container Line: Systems Engineer Summer 2017, Hong Kong, China

- Developed Node.js and Java sample web application to demonstrate how developers could benefit from using Object storage over Block storage
- Perform data analytics on server logs using Splunk and Kibana, which allows the team to understand most frequently seen server failures, and the time period when server failure peak.
- Tools:** Node.JS, Java, Splunk, Kibana for ElasticSearch