

# Ou Ye

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## SKILLS

### PROGRAMMING

- Python, Java, C#, .Net,  $\text{\LaTeX}$
- React, Redux, Webpack, Azure
- Typescript & Javascript & Node.js
- AWS EC2 & S3 & Elastic-search
- Apache & Maven & Ant & Gradle
- Docker & Cucumber & Ecs
- Protobuf & gRPC

### DATABASE

- MongoDB, MySQL, DB2, Presto
- Presto, Hive

### TOOLS

- Git
- IntelliJ
- Eclipse
- Netbean
- PyCharm
- Visual Studio
- Android Studio

### INTERESTS

- Backend Development
- Full-stack Web Development

### HOBBIES

- Camping
- Traveling
- Star Gazing
- Photography

### PROJECTS

- [devpost.com/software/lens](https://devpost.com/software/lens)

## EDUCATION

**UNIVERSITY OF TORONTO**  
B.S. IN COMPUTER SCIENCE

## LINKS

Resume: [ouye.ca](https://ouye.ca)  
500px: [500px.com/mapleboy](https://500px.com/mapleboy)  
Github: [github.com/MapleWorld](https://github.com/MapleWorld)

## EXPERIENCE

### DROPBOX | SOFTWARE ENGINEER II - ANTI-ABUSE TEAM

Feb 2021 - Current | US, Seattle

- Detect & prevent sharing of abusive & malicious content on Dropbox, and prevent & reduce account take over activity on Dropbox products
- Build services to prevent malicious content from sharing, such as administration portal, restricted content service (**50k QPS**), abuse email processor, intake system, scanning pipeline and JUDO (Just-in-time User compromise Detection) system to detect potential compromised password using Python and React
- Build services and metric to detect abnormal/non-human user activity, like user bandwidth usage (**50k QPS  $\approx$  3 billion daily**), and captcha

### MICROSOFT | SOFTWARE ENGINEER II - WEB PROTECTION TEAM

Aug 2019 - Jan 2021 | US, Seattle

- Building scalable, cloud-based, machine-learned reputation systems using Microsoft's proprietary machine learning language scripts on security and fine-tuning malware detection algorithm
- Development of Network protection data feed pipeline with continuous integration and continuous deployment (CI/CD) enabled through Azure DevOps
- Design and development of Network protection feature adopted by **500M** machines and block URIs from being accessed by applications with roughly **6M** api call per day
- Cross team optimization effort for the entire back-end job pipeline system for Windows Defender, resulted in saving of **2M** annually, and a saving of **300k** for optimization within the team
- Development of file delta, saved roughly **1TB** of bandwidth consumption daily

### THOMSON REUTERS | SOFTWARE ENGINEER

Jan 2018 - Aug 2019 | Canada, Toronto

- Full stack development using Java, react, C#, .Net and node.js based web applications with e2e testing using docker, selenium and cucumber
- Integration of various tools, like Swagger to help consume RESTful Web services, automated documentation, code generation, and test-case generation
- Development of high volume search intensive web applications using elastic search

### RAKUTEN | SOFTWARE ENGINEER INTERN

May 2017 - August 2017 | Japan, Fukuoka

- Design and implemented of an auto data generation server & website, to facilitate and streamline the process of data generation for credit card testing

### AMAZON | SOFTWARE ENGINEER INTERN

June 2016 - Sept 2016 | Canada, Toronto

- Development of REST API interactivity web analytical tool to visualize and identify the performance of the internal supply chain pipeline using Java, and Hibernate

### IBM | SOFTWARE ENGINEER INTERN

May 2015 - April 2016 | Canada, Toronto

- Development of a cross platform web server, and a mini cluster to enable horizontal scalability: **Supports 750x more processes through load balancing** using Java, Node.js, Cluster, DB2 & MongoDB for user to interact with SQL Query Generator