

# Rui Zhou

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## SUMMARY

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Master student graduate from Concordia University. Experienced software developer looking for challenging opportunities in the field of web development and evolution. Excellent technical skills in programming using Java, and Python. Extensive knowledge of the Artificial Intelligence, Machine Learning, and Web Security.

## EDUCATION

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### **Master of Electrical and Computer Engineering** 2018 - 2020

*Concordia University, Montreal, Canada*

- **Relevant Courses:** Programming on the Cloud(A), Optimization Technology

### **Bachelor of Software Engineering** 2012 - 2016

*Shandong University, Jinan, China*

- **Relevant Courses:** Software Development, Network Attacks & Prevention, Security Agreement & Standard, Software Quality Assurance and Testing Technology, Artificial Intelligence, Data Structure, Database Management

## ACADEMIC PROJECTS

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### **Software Vulnerability Detection** 2018 – 2020

*Graduate Research, Concordia University*

- Researched and collected pertinent documents in the field of Android logging practices and software vulnerability detection.
- Communicated the work process with the supervisor in the weekly meeting and received feedback.
- Collaborated with the professor at WSU to extend the Android analysis software by Soot.
- Performed all programming functions and run the tools by using: Soot, DoridFax, FlowDroid, Java, Shell Bash.
- Built the tool, LogDroid, to automatically detect data leakage, generate vulnerability reports and give suggestions..

### **GitHub User Behavior Analytics System** 2018

*Programming on the Cloud, Concordia University*

- Assisted the user behavior analysis by Deep Learning (LSTM) to let the results be close to real practices.
- Designed the online website and developed the front-end by JavaScript, Ajax, Bootstrap, and HTML5.
- Compared the benefits among PaaS, IaaS, SaaS and finally deployed the services on Amazon Web Service.
- Developed the Android application to extend the usage of this system
- Generated the GitHub REST API to access the service in the back-end.

- Presented the consequence in the class final evaluation and get A grade in this course.

## Cybersecurity & Natural Language Analysis

2014 – 2015

*Research Assistant, Shandong University*

- Researched in the domain of Cybersecurity, Internet Logic Security in E-commercial website and natural language analysis.
- Contributed to the development of automatically computing the logical vulnerability for online service and maintained the software by Python.
- Executed the intention by Natural Language Toolkit and predicted the masses trend by Machine Learning tool, Scikit-Learn.

## CAREER-RELATED EXPERIENCE

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### Web & Mobile Developer

2015 – 2016

*K-Logic Software Inc., Sino-Canada joint venture*

- Built the website front-end by Scale, Bootstrap, Ajax, JavaScript, CSS, and HTML.
- Wrote the system back-end by Java in the template of Spring-Struts-Hibernate.
- Managed the database by MySQL and using Java Persistence API to store the data
- Organized the code in the pattern of Model-View-Controller and Managed by GitHub.
- Developed the mobile application for the system by Ionic2 Framework.

## SKILLS

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- **Programming languages:** Java, C/C++, Python, Shell Bash.
- **Web & Mobile:** Ajax, JavaScript, Bootstrap, CSS, HTML5, Html, Ionic2 Framework.
- **Academic Technologies:** Nature Language Process (Natural Language Toolkit), Machine Learning (Scikit-Learn, Liner SVM, KNN), Deep Learning (PyTorch, TensorFlow, LSTM), Reinforcement Learning, Q-Learning.
- **Development Tools:** Eclipse, XCode, Visual Studio, PyCharm, Atom, MATLAB, Photoshop

## PUBLICATION

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### MobiLogLeak: A Preliminary Study on Data Leakage Caused by Poor Logging Practices

2020

27th IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER 2020)

## ADDITIONAL TRAINING & CERTIFICATIONS

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Certificate of PowerBI with Azure DevOps (ADO)	2021
Certificate of Artificial Intelligence A-Z™: Learn How To Build An AI	2020
Certificate of Second Language Proficiency in the French Conversation Program	2019