

# Rui Zhou

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## SUMMARY

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Masters of Applied Computer Science 2020 Graduate from Concordia University. Academic researcher looking for challenging opportunities in the field of Junior Data Analyst. Excellent technical skills in data analysis using SVM, KNN, and LSTM learning model. With great passion and enthusiasm to learn new technologies.

## 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)

## 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.
- Analyzed the taint flows between Benign and Malware in 600,000 android applications by FlowDroid to check the current security section in the industry.
- 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.
- Generated the GitHub REST API to access the service in the back-end

### **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.
- Presented my outcomes in the Key Lab of Cryptographic Technology and Information Security, Ministry of Education, Shandong University.
- Executed the intention by Natural Language Toolkit and predicted the masses trend by Machine Learning tool, Scikit-Learn.

## **SKILLS**

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- **Programming languages:** Java, C/C++, Python, Shell Bash.
- **Web & Mobile:** Ajax, JavaScript, Bootstrap, CSS, HTML5, Html, Ionic2 Framework.
- **Programming:** Github, Soot, Flowdroid, Droidfax, Natural Language Toolkit, Scikit-Learn, Liner SVM, Pytorch, LSTM, Pygame.
- **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

## **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
IBM Certified Solution Developer - XML 1.1 and Related Technologies	2013

## **REFERENCE**

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**Supervisor:** Abdelwahab Hamou-Lhadj

*Professor, Concordia University*

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