BAO NGUYEN

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SUMMARY
An open-minded graduated Computer Science student with lots of experience in Software Development, Data Integration, and Quality Assurance.

TECHNICAL SKILLS

Programming: Java, C#, C, C++, Python, PHP, Android		*Framework/Platform*: J2EE, .NET
Databases : SQL, JDBC, JPA, RDF, SPARQL, MongoDB		*Automation Testing* : JUnit, TestNG, Selenium
Web : HTML, CSS, JS, Bootstrap, AJAX, REST, Spring, MVC		*Version Control* : Git
Methodology: Agile/SCRUM, TDD, Mobile-First Development		

PROFESSIONAL EXPERIENCE

Data Integration Analyst   Loopback Analytics   08/ 2018 - Present
- Build and maintain multiple Windows Form Applications which automate manual data cleaning tasks that save hours of operation per process for other people
- Design, build, and maintain multithreaded Windows Service applications that automatically download files on schedule and transfer them among servers, which helps save a lot of manual work for the company
- Utilize SSIS, SSDT and relevant tools to integrate many data sources together

Software Quality Assurance   Loopback Analytics   05/2017 – 08/2017, 01/ 2018 – 08/2018
- Architect and build a system that integrates different tools to support end-to-end automation testing that reduces tons of long and error-prone manual process for QA team, thus increase efficiency
- Implement additional features such as self-healing and report logging for the automated Selenium tool that give better reports with clearer error tracing

PROJECTS
File Transfer Application
This project implements a unique protocol for File Transfer between one Server and one Client utilizing Socket Programming, Connection Management, Reliable Communication, and Security (Public Key Crypto as well as Symmetric Key Crypto).
URL: https://github.com/baonguyen96/FileTransferApplication

Dark Chroma
This project is a chrome extension that converts web pages to a dark background with light text to reduce eye-strains during a long reading session. It utilizes HTML5, CSS, Bootstrap, and JavaScript/jQuery (Available on Chrome Web Store).
URL: https://github.com/baonguyen96/DarkChroma

ARGO Self Service Agent for Test Data
A Web Application in Java SpringBoot and JSP that allows QA Testers to query and mutate data to produce new test data. Working with Semantic Web and RDF data. Senior Design project.

Morse Mastering
This mobile application (Android) teaches users the Morse code and translates between Morse and normal text. It also provides some Android services, such as *Notification* and *Network Communication* (share messages to other contacts).

Flights Map
This project represents a map of flights that connect different cities. Each city is a vertex, and each flight is an edge in the graph. It utilizes *Dijkstra's* algorithm to find the 3 shortest paths (either by flight duration or by total distance) between given 2 cities.
URL: https://github.com/baonguyen96/FlightGraph

EDUCATION

The University of Texas at Dallas	*Bachelor of Science in Software Engineering*	2014 –2018
The University of Texas at Dallas	*Master of Science in Computer Science*	2018 - Present

AWARDS

Fall 2014, Fall 2015, and Spring 2018 Dean's List	2017 Wells Fargo Endowed Scholarship
2018 Selden Leavell Endowed Scholarship	2018 Mason Brown Family Foundation Endowed Scholarship
Software Testing Contest Certificate from IEE Reliability Society	*Cum Laude* Honor Graduation