Richard Zhang

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EXPERIENCE:

Software Development Engineer - Alexa Gadgets Cloud, @ Amazon, Irvine, CA　　　　July 2019 - present
- Helped improve and support Alexa gadgets cloud speechlet and management services
- Designed and created karaoke experience on Echo show devices with VUI and GUI interactions
- Created firmware upload functions on Alexa Voice Service web page

Software Engineer - Auto Customer NB @ GEICO, Chevy Chase, MD　　　　July 2017 - July 2019
- Created adobe configuration for adobe analytics in order to track customer preferences on web pages
- Created OCR driver's license project for mobile web, implementing camera function by using MVC to call an API to recognize the image, extract data, and utilize for Lexis Nexis prefills
- Participate in UI breakdown experiment, changing website design, and create configuration changes, also provide support and monitoring logs and data flow for experiment rollout release
- Implement strong refactoring techniques to remove and update outdated code, and reduce code complexity
- Implement RESTful API to trace root of bugs, and design and deploy enhancements for both front-end and back-end
- Implement agile scrum concept in daily programming assignments

Dev-ops intern @ Telarix Inc., Vienna, VA　　　　Nov 2015 – Feb 2016
- Performed an important role in collecting and documenting requirements documentation and deployment plans.
- Implemented and managed employee's data using SQL functions.
- Developed and maintained on-going relationships with various individuals and groups that provided business perspectives necessary to deliver accurate and consistent data solutions for the client.

EDUCATION:
- Bachelor degree of Science on Computer Science, George Mason University
  Overall GPA: 3.67, CS Major GPA: 3.64, Graduated May, 2017

SUMMARY OF QUALIFICATION
- Software engineer with strong analytical and technical skills
- Strong project management and end user problem solving capabilities
- Excellent written and oral communications skills and a great team player

TECHNICAL SKILLS:
- Programming: Java, C#, RESTful API, Javascript, Linq, MVC model, SQL server, Android, MS Azure, Agile development.
- Software: Visual Studio, TFS version control, Splunk, MS SQL Server, Fiddler.
- Writing skills: able to write academic research papers, letters, organized reports, labs, and memos.
- Public speaking: confidently give engaging, creative speeches in both English and Chinese fluently.

PROJECTS:
- **Emergency App**
  This app is designed for Android phones with system 4.4 Kitkat or later which provides calling the number by one click, sending pre-stored emergency text messages and editing/adding messages, sending pictures taken by front/back camera via text, and also sending current location info by google map link using GPS tracker. Widget also available on the home screen.
- **OCR windows App & OCR nodejs app**
  Both apps are prototypes of translate image into text using Tesseract api to extract information. The OCR windows app could open a local picture and display the text information based on Tesseract calculation. The nodejs app will take multiple images as a list, and give a list of text information based on the calculation.
- **Python Compiler**
  This compiler converts python code into x86-64 assembly code. It parses integers, variables which can be saved on runtime stack, arrays, input/output, arithmetic functions, loops, non-recursive and recursive functions, and control flow. The compiler can be used to produce running executable based on the python code.