LIANG YU

Full Stack Software Engineer

Permanent Resident   Email: yuliang.name@gmail.com
Boston, MA 02138   Cell: 617-901-0618

(a)   Education & Courses

Computer Science	Northeastern Univeristy	Boston, MA, USA	M.S., 2012.12
Computational Mathematics	Nanchang University	Nanchang, Jiangxi, China	B.S., 2009.6

Language:	C Programming Language, Program Design Paradigms in Lisp
Algorigthms:	Data Structure in C, Algorithms, Advanced Algorithms
Software:	Managing Software Development(Java), Parall Computing in MapReduce, Introduction to Database
System:	Assemble Language(IBM X86), Computer System, High Performance Computing

(b)   Skills

MacOS&iOS:	Swift • SwiftUI • Objetive-C • Xcode
System	CentOS, Red Hat, Ubuntu, C, C++, GDB, Shell
Web	Java • Eclipse • REST • SOAP • Postman • Jmeter
Networking:	SIP/RTP, TLS/SSL, IPSec, Wireshark, SIPP, EXFO, Fiddler
Others:	MySQL GIT • SVN • Jira(Kanban,Scrum,Bug) • TestLink Pycharm LaTeX Python Lisp Tcl

EXPERIENCE

(c)   Oracle America Inc. | Senior (since 2019) Software Engineer in Test

Bedford/Burlington, MA 2014.2 - 2020.11

1. **SBC Security Team**
   - two factor authentication
   - local users
   - authentication authorization
   - Executed tests related to authentication and authorization and accounting with remote AAA servers (TACAS+ and Radius)
   - Wrote test scripts for TACACS+ test. and simulate performance test to reproduce the customer's defect
   - Tested the DDOS pretection feature in the SBC
2. **SBC Virtualization on private cloud and public cloud**
   - Deployed the virtualized SBC and LInux VM on the AWS cloud and Azure cloud.
   - Integrated the EXFO APIs into the Tcl script to automate various performance test cases that would otherwise be repeated for different CPU core combinations (signaling, forwarding, Transcoding or DOS cores)
   - decreased the week sof mannual test effort to a couple of days and increased the usage of expensive test equipments in the night time
   - Installed the in-house made Anvil test framework on the VMs in the public clouds and sovled the library dependency issues. bring the automation test framework to the cloud enviroment
   - Designed the networking diagram for the testbed on the clouds and decumented it on the confluence page.
   - Performed Capacity Tests on the AWS and Azure platform
   - Tested teh SIP call between the AWS cloud and Azure cloud
3. Dedicated teacher and mentor, evidenced by numerous awards:
   - Spark Award, "for inspiring the next generation of women in science", Harvard, 2009
   - Fannie Cox Award, given annual
4. **SBC REST Interface Project**
   - Used the scrum board to track the work progress in the Agile mode.

- Added hundres of test cases into automation testframe(RAID) to leverate the night time to run the daily regression test.
- Used the Postman App to test SBC Configuration APIs.
- Opened dozens of defects and helped developers to sort out their priorities and fix them.
5. **Tunnel Session Management Project**

   Deployed to Linux, iOS and Android platforms

   function, capacity, performance, regression test, Testbed lab, automation test scripts,
   - refoctory the test scripts to fit for cooperation, sort the functions into different files based on the purposes
   - Wrote scripts to automate more than 1,000 test cases for TSM SDK, which extened the test coverage by 5 times.
   - Built a real senario testbed with Android phone, iPhone, SBC, Zabbix monitoring, linux tools from multiple VMs.
   - Enhanced the exsited iOS/Linux/Android apps to test new features.
   - Wrote shell scripts to exectued the capacity and performance test.
   - Familiar with TLS/SSL protocols and socket programming in Linux Environment.
   - Designed test plan documents
   - Raised 200+ product defects, including critical defects that affected performance and capacity.
   - Coorperated with Dev Team, Datapath Team and Application Team to close the defects.

(d)   Integrated Computer Solutioins | Software Developer

2013.4 - 2014.2 | Bedford, MA
1. Topics Project (Android App)
   - Wrote unit tests with pytest framework in Ubuntu environment.
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2. Inkarus Project (Javascript Game on Windows Tablet)
   - Implemented a function to synchronize the score and screenshot of the winner to Azure Cloud and retrieve data from the cloud by using WinJS libraray and HTML5.
   - Implemented the Ads feature with the Microsoft Advertising SDK.

(e)   Acme Packet | Software Developer Intern

2012.1 - 2012.8 | Bedford, MA
1. Application Session Controller (ASC) Project
   - Contributed to ASC automated testing framework by writing Python scripts.
   - Developed a Call-Transfer web service application by calling the SOAP API in Javascript.
   - Created VMs on the XenServer to run various SIP tests.

(f)   TinBoston App | Apple iOS Developer

2017 - 2018 | Boston, MA
1. MVP
   - Rewrote UI in SwfitUI, REST API calls with Combine Framework
   - sfsdfsdft.
   - sfdsfsd.