ZECHARIAH GERARD TAN JIA LE

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Education

National University of Singapore (NUS)   Aug 2016 – Jul 2020

- Bachelor of Engineering in Computer Engineering, Honours (Distinction) / Second Upper Honours
- Specialization in Communications & Networking
- Cumulative Average Point (CAP): 4.13 / 5.00
- Relevant Entry-Level Modules: Digital Fundamentals, Electrical Engineering, Electronic Circuits, Discrete Structures, Programming Methodology, Data Structures and Algorithms, Introduction to Information Security
- Relevant Higher-Level Modules: Programming for Computer Interfaces, Signals and Systems, Computer Architecture, Real-Time Operating Systems, Computer Networks, Network Protocols and Applications, Wireless Networks, Software Engineering, Embedded System Design Project

Work Experience

Software Quality Assurance (QA) Engineer, SteelSeries ApS   Aug 2020 – Present

- Define test phases and test cases for around 10 new projects and features
- Give improvement feedback on around 10 new project and features during beta testing phases
- Write and update quality monitoring documents
- List, qualify, archive and reproduce about 100 bugs reported by customers for software developer analysis
- Understand and communicate bug details to a team of up to 5 software developers responsible for bug fixing
- Worked in a Scrum team of up to 10 members for software development projects, with a team of 3 QA Engineers, 5 software developers, 2 Project Managers and 1 manager who leads around 20 personnel
- Performed in a Kanban QA team of 3
- Advise and provide technical support to software developers reproducing bugs on the test machines
- Discovered more than 150 bugs and at least 10 critical or showstopper bugs
- Modify test machine firmware or BIOS to enable testing, development and bug reproduction purposes
- Operated 20 customer or company software tools including Microsoft SysInternals Suite and found ~5 software tools
- Prepare, maintain and recover 50 test machines for development and testing purposes
- Initiated the creation or modification of about 20 PowerShell and command prompt scripts to reduce workload
- Tuned test machine registry entries, system32 files and system settings in Windows 10 and 11
- Utilized Postman to send API calls to backend to simulate device connections

Cybersecurity Intern, Assure IT Pte Ltd   Feb 2019 – Aug 2019

- Built automated cyber auditing scripts for Linux systems, Microsoft SQL servers, Windows IIS web servers and Oracle database systems using BASH, PowerShell Scripting, T-SQL and PL/SQL, saving massive time for audited clients in going through cybersecurity audit checklists
- Developed cybersecurity audit checklists for ArcSight Logger and Linux OS
- Prepared cybersecurity audit reports for clients
- Documented and tested for bugs in a Personal Data Protection Act (PDPA) application
- Presented a PDPA application for official PDPA officer usage to Infocomm Media Development Authority (IMDA)
- Modified a corporate website using HTML and CSS to update its clients on its latest happenings
- Learned to patch office telephones to a 110 Terminal Block and crimp LAN cables

Admin Support Assistant, Air Power Generation Command (APGC)   Jun 2014 – May 2016

- Retrieved Nominal Rolls and manpower to job position files of more than 4,000 personnel everyday
- Pioneered an automation script coded in Visual Basic for Applications (VBA) to reduce the time to retrieve and format daily nominal rolls and manpower to job position files appropriately from about 25 minutes to 10 minutes
- Managed the tracking of about 1,000 junior military personnel's job positions in APGC
- Initiated the design of a template for manpower movement plans that utilizes Excel formulas to significantly reduce the time required to draft such movement plans

Academic Projects

Project Advisor for an Independent Software Development Project   May 2018 – Aug 2018
- Advised and conveyed resources on the project direction and implementation of software features for 5 pairs
- Evaluated the performance of these 5 pairs' project developments at 3 milestone points over 2 months

Software Engineer for Address Book Application   Sep 2017 – Nov 2017
- Partnered with 3 other members to develop and add new features to an application with 1,000+ lines of code
- Utilized GitHub for collaborative coding and employed Gradle for Continuous Deployment
- Rigorously tested for bugs by leveraging on Continuous Integration software such as TravisCI and AppVeyor
- Adopted AGILE development over 1.5 months, pushing out partial features in iterations to complete the feature
- Documented features in a user and developer perspective with some use of Unified Modeling Language (UML)

Extra-Curricular Activities

Software Quality Assurance (QA), Heart of God Church   Feb 2023 – Present
- Kickstarted the QA department alongside 2 other members
- Documented 175 test cases over 3 different projects using Zephyr Scale app on JIRA
- Created at least 20 User Stories on ClickUp board in a Scrum team of about 20 running AGILE methodologies, consisting of 2 managers, 2 Project Managers, 9 software developers, 5 UI/UX designers
- Mobilized and lead about 10 personnel to 3 rounds of testing over 1 week
- Identified at least 40 bugs in 1 project

Live Sound Engineer, Heart of God Church   Jan 2020 – Present
- Operated audio equipment during live praise and worship, as well as live events for tens to hundreds of audiences

ExxonMobil Campus Concert (EMCC), NUS   Aug 2019 – Apr 2020
- Managed the group's inventory of 100+ items and 3 premises as Logistics IC of the executive committee and delivered required logistics for arts events
- Oversaw planning and execution of 3 arts performances attended by hundreds of audiences
- Disseminated information and role expectations to about 10 personnel taking up various supportive roles
- Interacted with tens to hundreds of concert goers and assisted concert goers in information and other needs

Vice Head, Tech Team, Raffles Hall (RH), NUS   Aug 2017 – May 2018
- Conducted technical workshops for junior members of the Co-Curricular Activity (CCA)
- Sourced for manpower for technical set-up of required hall events that happens at least once a week
- Filed quotations of technical equipment purchases and catalogued 100+ technical equipment of the CCA

Sound Manager / Head for Raffles Hall Musical Production, RH, NUS   Oct 2016 – Apr 2018
- Communicated sound cues for a performance attended by hundreds
- Collaborated to place stage markings to aid movement of props during practices and actual performance
- Appointed junior members to be recruited into the Stage Management team
- Coordinated running of a bootcamp for intensive rehearsals for 100+ on-stage members
- Operated audio equipment during live performances for hundreds of audiences

Additional Information
- Fluent in English (Spoken and Written), and Moderate Proficiency in Simplified Chinese (Spoken and Written)
- Proficient in Procedural C, Java, Arduino IDE, BASH, PowerShell, T-SQL, PL/SQL, VBA, Microsoft Office, Windows 10, Windows 11, Windows Registry, Windows system32, Microsoft SysInternals Suite, Postman API & Zephyr Scale (JIRA)
- Basic proficiency in Python, LPC, Verilog, VHDL, HTML and CSS
- Familiar with AGILE methodologies such as Scrum and Kanban, using project management tools such as YouTrack, JIRA and ClickUp
- Enjoys Audio Editing and Multi-track Mixing as a hobby, using Digital Audio Workstations (DAWs) such as Audacity, Ableton Live and Pro Tools