

# Avery Jacobson

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Targeting an Opportunity as a Software Development Engineer in Test

## Software Engineering

- \* 10-year experience in software testing with excellent understanding of the various testing efforts: integration and regression in different testing environments. Experience developing automation suites, as well as planning, preparing, and executing test plans.
- \* Quickly learn and master new technologies; successful working in both team and self-directed settings.
- \* Experienced developer in object-oriented programming and procedural programming
- \* Extensive experience SDLC and agile mythologies
- \* Strong analytical skills, ability to identify problems, research issues, and provide solutions.

## Education

### Coding Boot Camp Certification

University of Minnesota – Minneapolis, MN

### Associates in Applied Science Computer Science, 3.5 GPA

### Associates in Applied Science Foundations of Engineering, 3.5 GPA

Normandale College – Bloomington, MN

- Tutored Math, Physics, Computer Science
- Math club president
- SQL Certification

### Associates in Computer Software Technology

ITT Technical Institute – Eden Prairie, MN

### High School Diploma

Edina High School – Edina, MN

## Programming & Technology Experience

- Assembly language, Bash, Batch, BDD, C, C++, Cucumber HTML/CSS, Java, JavaScript, JQuery, LISP, OpenGL(Libraries), Perl, PHP, Python, Selenium, SQL/MySQL, TypeScript, Visual Basic for Applications, Visual Basic .NET, Visual Basic Script, XML
- A/C D/C, accelerometer, ADE (bus management software), Apache, Arduino, Arinc protocols, ARM Cortex, AVR (microcontroller), Basys2, CDMA, controller software, Cygwin, DLL, digital logic, Doors, digital multi meter, Eclipse, DHCP, frequency generator, FPGA, GCC, GIT, GitHub, GPS, GSM, Harvest, Hercules, IAR Systems, IBM Notes, infrared, integrated circuits, Jira, JTAG, Labview, Linux, Matlab, MS Office, MS Teams, MinGW, network switch, oscilloscope, Raspberry Pi, real time operating systems, Redmine, RS-232, spectrum analyzer, Subversion, TCP/IP, TestComplete, Testlink, Test Rail, UART, Ublocks, Unix, Virtual Box, Visual Studio, Xilinx, ZigBee

## PROFESSIONAL EXPERIENCE

### **Wells Fargo Minneapolis, MN**

**8/21 – 4/24**

#### **Senior Software Engineer**

- Helped with the development of Wells Fargo's brokerage website and app.
- Actively involved in various phases of Software Development Life Cycle (SDLC).
- Java, Selenium, Appium, Maven, BDD, Cucumber, Eclipse, Jenkins.
- Planned, developed, documented, scheduled and executed integration and regression testing scripts using CI/CD tools.

### **Wells Fargo Minneapolis, MN**

**3/20 – 8/21**

#### **Software Test Engineer**

- Testing Wells Fargo's home mortgage lending tool CORE.
- Integration and regression testing in testing environments.
- Created BDD automated scripts in Java, Selenium Maven.
- Continuous Integration, Continuous Delivery, SDLC.
- Functional UI development and testing to make sure all calculations are and documents are correct.
- Worked with the Rules and Get All In Price teams to make sure products and pricing are returning correctly.
- Executed and managed requirements, test plan, test cases using the Application Lifecycle Management tool.
- Work on End to End testing teams to seed loans to test from start to finish.
- Identify ongoing issues and defects that need to be resolved for the Commercial Lending System.
- Worked on performing Source to Target mapping of data retrieved from disparate sources related to the Mortgage services.

### **Stratasys Eden Prairie, MN**

**9/17 – 12/19**

#### **Senior Software Technician**

- Helped consult and set up a test case management tool TestRail. Led the drive to work with a team to select a version control tool and research plug-ins needed to work with our automation tool.
- Designed workflow of software automation development and set up the workflow tool Jira.
- Set up Jira using simple issue language and REST API.
- Consulted on software languages being used for automation development.
- Wrote new and updated old test cases for a variety of industrial 3D printers.
- Worked with engineers on upcoming projects on tools needed for systems, and to diagnose failures and change requests on current projects.
- Set up new automation suites and architecture for new projects, taking written test cases and automating them using the scripting tool TestComplete and writing test scripts using Javascript.
- Writing automated tools using Batch, Bash and Python scripts to execute backend commands along with TestComplete.
- Set up automation hardware to be ran remotely.
- Created a virtual machine for automation to run on. Used a programmer to flash and test firmware.
- Use RS-232 to look at serial data from the processor.

- Execute manual software tests for specific change requests, analyzing system logs to diagnose failures. Train summer interns and be their main point of contact.
- Train new employees to the team.
- Created dashboards in Jira for data mining for all automation projects to report progress.
- Won a spark award by the company for going above and beyond the call of my job.

#### **Rockwell Collins Cedar Rapids, IA**

**1/17 – 8/17**

##### **Software Technician**

- Helped design, test, and develop multiple proprietary critical flight systems for aircraft industry.
- Worked in an agile team environment holding scrum meetings allocating and executing tasks. Tasks included:
  - Assist systems engineer in development of buses on proprietary bus management software.
  - Helped add features to proprietary aviation software tools in PHP.
  - Set up automation scripts using python and fixing broken automation scripts.
  - Set up Bamboo in Atlassian to launch batch scripts I created to automate the execution of automation and logs.
  - Set up aviation hardware and software for testing on flight critical systems.

#### **Carestream Oakdale, MN**

**5/15 – 11/15**

##### **Software Quality Assurance Technician**

- Tested, maintained and serviced different radiology printers for quality control with new hardware and software. Follow FDA documentation regulations. Creating and maintaining servers for printer interface. Followed test procedures and did verification testing with production image quality control. Made sure that everything was shipped correctly and worked out of the box according to manuals. Tested prototype film for quality control and meeting of standards, including measuring film for correct density of darkness and followed image quality test procedures for quality inspection of film. If an engineer made new hardware, I would put it in the machine and test that the X-ray imager was working properly and that film met quality specifications.

#### **Carestream Oakdale, MN**

**09/14 – 03/15**

##### **Software Test Engineer**

- Using the C programming language and Windows' libraries I created a test script to perform regression tests on positive and negative test cases. I created a serial connection using the window's libraries. A file handle was created, the baud rate was set and the data was parsed. I was given a user manual and created test cases based on the device. A time stamp was created at the beginning and end of every test case. Results went to a HTML document.