

Shogo Nakamura

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EDUCATION

University of California, Irvine, CA

March 2020

Bachelor of Science, Computer Science

Specialization: Systems and Software

Coursework: Data Structures, Design and Analysis of Algorithms, Operating System, Computer and Network Security

EXPERIENCE

Prism Software

June 2018 – March 2020

Quality Assurance Engineer

- Write automated test cases using Python for unit testing (PyTest) using the company's API which helped decrease regression testing time by more than 50%
- Helped create framework that can run a test suite anytime a new build is pushed using a Windows Server machine and event scheduler
- Involved in redesign of a web application to improve user experience
- Automated incoming bug tickets to be sorted by priority and created a verification system in which to decide whether the bug is reproducible or not
- Perform inspections and conduct testing to locate defects in the software and report results to the respective Engineering teams

PROJECTS

Encrypted File Viewer and Editor (C)

Spring 2020

- This project was intended to familiarize myself with basic text encryption, specifically Caesar Cipher
- Characters are added to an offset integer value to encrypt the text, and users can only view the decrypted text through the program
- User has the option to create a new file given a valid directory, view decrypted file, or edit an existing file

Volt-Meter (C)

Winter 2020

- Using an Atmega32 Microcontroller, my partner and I designed a breadboard circuit that can read voltage which can be displayed to an LCD
- The LCD can display the current, average, minimum and maximum voltage of the reading
- ADC was used to convert analog voltage into an integer

Process and Resource Manager (Python)

Winter 2020

- Mimic how processes are stored and released in computers using various data structures
- Created data structures for Process control block, Resource control block, and ready list
- Processes can be created, destroyed, released, timed out, and requested
- An interactive shell was also created to manage the processes

File Systems (Python)

Winter 2020

- Created a program that can read and write to an emulated disk
- User is able to create, destroy, open, close, read and write to the emulated disk
- A disk, open file table, and directory data structures were created to store files, and an interactive shell is used to manage the files

Automated Testing Framework (Scripting Languages, Python)

Fall 2019

- The custom-built framework installs the latest build of the software, pulls the latest code changes from GitHub, executes the test suite, emails the test results, and uploads the test results to Jira
- Using the company's API, our team wrote over 200+ backend test cases
- Selenium tests were also implemented to test the front end of the website, resulting in a total of 400+ frontend and backend test cases
- Windows task scheduler calls a Bash script every hour to check to see if a new build is available to install and test

SKILLS AND ABILITIES

Experienced Programming/Scripting Languages and Technologies

- Python, C, C++, Java, HTML, PHP, CSS, Bootstrap

Technical Skills

- VIM, Git, Visual Studio Community/Code, XCode, IDLE, Eclipse
- macOS, Linux, Windows

Languages

- English, Japanese