Michael Kim

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**EDUCATION:**

**University Of Virginia, College of Arts and Sciences**

Charlottesville, VA

*B.A. in Computer Science Sept 2021 – May 2023*

Operating Systems, Computer Architecture, Cyber Security, Data Structure and Algorithm, Software Testing, Web Development

**SKILLS:**

**Language**:

* Java, Python, C, JavaScript, HTML, CSS, PHP, R, JSON, SQL, SQLite, C++, C#.

**Framework:**

* Linux, Git,JavaFX, Selenium, Angular, Scenebuilder, Junit, Mockito, Bootstrap, MVC.

**EXPERIENCE:**

**United States Air Force** *Feb 2017 – Jan 2021*

* Trained medical procedures and patient care, and sponsored new medics at 55th Medical Group. Cooperate, orchestrate, and work well with large groups and leaderships.
* Worked with mass casualty triage team at 55th Medical Group. Skills to communicate effectively, concisely, and succinctly under pressure was trained.
* Deployed to Al Udeid, Qatar to assist and work with 379th Expeditionary Medical Group. Was in charge of leading incoming medic for deployment training.

**Leadership**:

* Taught and mentored class materials and objectives to peers free of charge. Created a larger network, as students gathered, to help one and another for comprehending future class materials.

**PROJECTS:**

**Page Table Implementation** *March 2023*

* In C, designed an app that mapped a virtual memory to physical memory, and allocate data into the table.
* Upon user’s request, the app outputted the physical memory address of the allocated data.
* Design UI to modify the number of levels in a page table and the size of the offsets.

**Signal Handling** *Feb 2023*

* In C, developed interactive app that takes PID numbers and output the time it takes to handle different process signals.
* Compiled and build an executable file using makefile.

**Wordle Game Replica** *Oct 2022 – Nov 2022*

* Replicated worldle game using Java, JavaFX, and Scenebuilder.
* Implemented 3-layered architecture and used bottom-up programming approach.

**Government Apportionment** *Sept 2022 – Dec 2022*

* Built a command line user-interactive app that produced the calculation of Hamilton, HuntingtonHill, and Jeffersons strategy’s apportionment.
* Imported data of every state’s population from excel or csv files for analysis & data processing in Java.

**App Validity Test** *Jan 2023 – May 2023*

* Tested an online P-value calculator to validate data & functionality using Selenium.
* Utilized base coverage software testing methods to check code coverage & user’s input permutation to further validate the app’s functionality.

**UVA Bus Route** *Oct 2023*

* Built an app that downloaded and extracted a JSON file that contained UVA’s bus routes and stops.
* Extracted and transferred the data to SQLite.
* Allowed users to request bus stops and routes.

**Port Scan Python App** *March 2023*

* Built a command line user-interactive app that accepted both IP address and domain name to output a range of open and close ports.
* This app is used to determine which ports on a network are open and close to receive and send packets and data.

**RSA Python App** *March 2023*

* Built a command line-user interactive app that asks a message from the user and outputs encrypted message.
* This app is allowed users to secure their message before sending to its recipients.