

EDUCATION

Virginia Commonwealth University, Richmond, VA,
Bachelor of Science in Bioinformatics concentration in Statistical
Minor: Mathematics, Computer Science
Northern Virginia Community College, Annandale, VA,
Associate of Science in Biology

December 2018

May 2014

TECHINICAL SKILLS

Software: IntelliJ IDEA, Eclipse, VIM, Android Studio, FileZilla, LaTeX, Terminal, Excel
Operating System: Linux (Ubuntu, CentOS, Arch, Fedora), Windows (XP, Vista, 7, 10)
Language proficient: Python, R, Shell-script, Tex, Java, Golang
Exposures: C\++\#, Rust, Javascript, Nim, SQL

PROJECTS & ACTIVITIES

International Normalized Ratio Tester (open-source) Bitcamp, College Park, MD April 2016 - Present

- Designed an programming a user-friendly, tabletop device to test blood coagulation levels in patients
- Built for a raspberry pi using python with an array of infrared 700 nm light to measure the time it takes for blood to coagulate

Hundred Year Old Cell

October 2015- Present

- Developed in C to be another alternative Operating System with its own kernel, that would act as a biological cell
- building it on a linux platform

Lazy Suzans HackNC, Chapel Hill, NC

October 2015 - Present

- Planned a GPIO-pin token-ring with 3 separate raspberry pis where the group successfully sent signals to play telephone with the use of Python
- Developed the initial calls for the raspberry pi GPIO pins as well initial scripts to make calls for the wire to read and how to detect each other in python

Big-Radilator RamHacks, Richmond, VA

September 2018

- Developed in python a way to save the animation to a mp4 format, a create base mathematics to figure out on how the example would print
- Implemented to try and determine a whether or not if heat off a sub-space super computer could be constantly radiating its own

Unity.xs

March-April 2017

- Worked with given data set to try and create a website that would allow user to look up a locations for satellite parts as well as the companies that manufacture and launch satellites using LAMP for design

Medi-Calender RamHacks, Richmond, VA

September 2015

- Implemented code for calling the physicians, how to add their data to the database
- Built a calendar web app using django that would use password protection and IP blocking to ensure schedule was stored and accessed securely

Pebble Maze BitCamp, College Park, MD

April 2015

- Successfully worked as a manager on a team to create a Pebble Smart watch app in C
- Simulated a tabletop maze game, utilizing accelerometer in the watch, in addition to procedural generation methods

EXPERIENCE

Undergraduate Teacher Assistant, College of Engineering VCU

August - December 2015

- Served as teacher assistant for Java programming course
- Provided educational support to a diverse group of approximately 50 undergraduate students, answering questions about programming and assignments to ensure student success

LEADERSHIP

Officer & Vice President, The Society of Bioinformatics

October 2015 - February 2016

- Elected to leadership position within The Society of Bioinformatics, serving as part of the elected board for group organization and event planning
- Designed and constructed useful webpage to advertise the Society and provide information to members

Awards

Best Pebble Hack

- Won for Pebble Maze at bitcamp 2015

open-mainframe-Crypto-currency, VR, and C^2

- Won with decrypt the currency at RamHack 2017