

# Samuel E. Young

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## EDUCATION

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Virginia Commonwealth University, Richmond, VA, Summer, 2018  
B.S in Bioinformatics concentration in Statistical  
Minor: Mathematics  
Minor: Computer Science  
Northern Virginia Community College, Annandale, VA, May, 2014  
A.S. in Biology

## TECHINICAL SKILLS

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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, SQL, Tex, Java  
Exposures: C++, Rust, Javascript, Nim, Golang

## PROJECTS & ACTIVITIES

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- "Decrypt the Currency"**, RamHacks, Richmond, VA September 2017 - Present
- In a team of four, made something that would teach people, how to use and buy responsible cryptocurrency thorough VR in using Alexa as voice-activated teacher
  - While implementing niva on RHL (Red Hat Linux) 7.2 on an linux mainframe as a teaching implementation of a blockchain for the creation of finding possible fraudulent charges on cryptocurrency
  - Won these subject at Ramhacks open-mainframe-Crypto-currency, VR, and C<sup>2</sup>
- "International Normalized Ratio Tester (open-source)"**, Bitcamp, College Park, MD April 2016 - Present
- Currently designing and creating a user-friendly, tabletop device to test blood coagulation levels in patients
  - Building sensor for raspberry using infrared 700 nm light to measure time it takes for blood to coagulate, then indicating to patients if the result is out of normal range
- "Political Climate Hack"**, VolHacks, Knoxville, TN September 2016
- The hack was made with IBM-BlueMIX to generate a word list from keywords
  - Predicted polling from Twitter for the candidates with the use of data charts from Initial State
- "Lazy Suzans"**, hackNC, Chapel Hill, NC October 2015 - Present
- In a team of four implemented a GPIO-pin token-ring with 3 separate raspberry pis where the group successfully sent signals to play telephone with the use of Python
- "Medi-Calender"**, RAMhacks, Richmond, VA September 2015
- Worked as part of a 4 person team to design a calendar web application for medical personal
  - Made use of password protection and IP blocking to ensure schedule was stored and accessed securely
  - The group implemented in django a Python extension for a calendar
- "Pebble Maze"**, BitCamp, College Park, MD April 2015
- Successfully worked as part of a team to create a Pebble Smart watch app in C
  - App simulated a tabletop maze game, utilizing accelerometer in the watch, in addition to procedural generation methods
  - Completed app was awarded Best Pebble Hack at Bitcamp 2015

## EXPERIENCE

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- 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

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- 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