

OBJECTIVE

To become a System / Data / Software Engineer

SKILLS AND CAPABILITIES

1) Programming Languages

- a) JAVA 1.8.x; 1.11.x-1.13.x
- b) Python 2.7.x, Python 3.8.x
- c) MySQL-SQL/MSSQL-SQL
- d) HTML, JavaScript, CSS
- e) MS Visual VB/C++ 2010 .NET

2) Operating Systems

- a) Any Flavor of Linux
- b) Slackware, Fedora, Ubuntu
- c) El Capitan - Catalina
- d) Solaris 10.x, 11.3
- e) Windows 7,10, 2008-R2

3) Word Processing Tools

- a) Libre-Office, vim, SciTe
- b) Word, PPT, XLS, Accdb
- c) KOffice, AbiWorld
- d) BlueFish, Crimson, KWrite
- e) MikTex

4) Statistical and Simulation

- a) NumPy, SciPy, Matplotlib, pymysql, openpyxl, Pandas
- b) R, R-studio, Anaconda
- c) Gelphi, SimScript
- d) IntelliJ, PyCharm, GIMP, Tomcat, Wildfly, Glassfish, Wordpress, Joomla, PHPbb, Drupal

EXPERIENCE

- [SSA](#): Software Engineer – 7/2023 – 7/2024
 - .NET development
 - Linux Administration
- [VWCC](#): IS Instructor – 1/2023 - Present
 - Teach PHP Programming WAMP stack
 - Teach Simple Web Development
- [Radford University](#): Lecturer 8/2018 – 6/2023
 - Teach Python programming
 - Teach Intro to Computing
 - Teach Web development I+II
 - Tech HCI with C-Sharp and OO Design Patterns
 - Robotic Engineering Training
 - Created VM ova file to give to student to write NodeJS Application
 - Advising students, participate in Curriculum Committee
 - Wrote CMD Python Tool Installer
- [Virginia Tech](#): Adjunct Lecturer 1/2021 – 5/2022
 - Data Analysis
 - Statistical Analysis
 - Data Modeling
 - Data Visualization
 - Taught the basic of Structure Query Language: { select, insert, update, delete }
 - Mathematical Computation
 - Wrote an automatic Python + Financial package Tools installer for Finance Students on windows (Updated to Python v 3.10.0 (for Spring 2022) from Python v3.8.6)
 - Wrote instructions on how to install Python v3.10.0 for MAC users.

- [University of Maryland@Baltimore](#): Linux Administrator 10/2016 – 7/2018
 - Wrote LDAP user query script in python
 - Rebuilt entire Solaris 10.x machine with zfs shares
 - Google For Education – Gmail and GAE
 - Linux FileSystem encryption {Luks} with cryptsetup tool
 - Ansible OS deployment tool and playbook scripting
 - Wordpress, Vibe, Mysql, Sympa list server, setup Tripwire server
 - Python scripting for general use on automation
 - Managed Linux VMs with ESX server web interface
 - Patch Solaris, Linux VMs, typical admin tasks

- [JHU Medicine](#): Application Developer 3/2015 – 9/2016
 - VB .net programming w/SQL server
 - Windows 2008 R2 maintenance
 - PC/Apple Encryption
 - Solaris configuration
 - Subversion setup and configuration
 - MAC laptop/desktop software management

- [Informs](#): Linux Consultant 5/2014 – 12/2014
 - Worked on managing mail system
 - Compiled specialized software in Linux environment
 - Troubleshoot issues with software
 - Configured Nginx with multiple threads

- [JHU-Sheridan Libraries](#): System Administrator (Senior System Analyst) 2/2013 – 2/2015
 - Worked on setting up Archival applications
 - Monitored and Setup Xen virtual environments for testing and production services
 - Installed Write-Blocker, CentOS server, add {RAM,HD,Hardware}
 - Secured and tighten linux CentOS servers, update CentOS servers
 - Installed, configured, manage glassfish service
 - Wrote Bash and Python scripts to monitor and maintain *nix systems
 - Cleaned data sensitive machines-data scrubbing

- [UMD-School of Business](#): Assistant Director (Windows / Linux Administrator) 2/2012 – 2/2013
 - Work with students to further develop their plans on programming projects for various IT courses
 - Setup, Configured and installed MS-SQL Server 2010 to support business courses
 - Scripted and Automated process to generate mysql backup for web production server
 - Content Management on Website
 - Distant Learning Tools

- [UNC-CH Odum Institute](#): System Analyst (Linux Administrator) 7/2010 to 2/2012
 - Setup and configured ESX VMware instances
 - Setup and configured Amazon EC2 cloud computing instances
 - Automated procedures in populating the Dataverse Network
 - Manage LOCKSS AUs
 - Wrote backup scripts for Mysql and PostgreSQL
 - Compiled and installed software on servers
 - Work with Amazon cloud VM instances
 - Secure and tighten linux RHEL servers, update RHEL servers
 - Install, configured, manage tomcat, apache, glassfish service

- [UNC-CH School of Medicine](#): System Analyst (Unix/Solaris/Linux/Mac Administrator) 10/2007 to 7/2010
 - Setup and configured VMware instances for users
 - Jmeter stress testing
 - Plone Website configuration with load balance and buildout technology
 - Configured OSX 10.5 Xserve w/Ldap
 - Manages backup storage via SL500, L25 with legato software
 - Setup, configured, installed mediawiki

- Setup, configured, installed mysql, wrote python script to add users to wiki
 - Coded in php via nusoap on Lyris
 - Setup, installed, configured console servers
 - Jumpstarted Solaris via network, configured Solaris, installed packages
 - Setup, configured, installed apple OS 10.4, 10.5, QTSS, httpd, firewall, user accounts
 - Setup, configured, installed Nagios 3.10 for monitoring servers
 - Monitor room temperature via room monitoring system, sanitize-replace hardware, upgrade software
 - configured, installed BIND, Sendmail, httpd
 - Wrote documentations, troubleshoot user issues
- [Durham Technical Community College](#): Programming Instructor 1/2008 to 5/2011
 - Taught VB.net 2005
 - Taught Raptor programming
 - Taught Intro to Computers
 - Wrote a plugin C# dll toLower() and toUpper() methods for raptor
 - Wrote a student authentication, attendance tracking system via php
- Personal Consulting Website: www.kraeftigerkaese.xyz 8/2004 to present
 - Concept Mapping Development
 - Camtasia 9.x – screen capturing video editing tool
 - Curriculum Design and Planning
 - Covid tracking: <http://www.kraeftigerkaese.net/covid/>
 - Docker instances
 - Specialize in Open Source Applications
 - Obtain Oswald.org design templates and restructure CSS, html design
 - Install, setup, and configure Linux Operating systems (mainstream Linux OSes)
 - Install, setup and configure vsftpd, proftpd, apache, samba, mysql, zope, plone, etc.
- [Appomattox Regional Governor school](#) (High school Programming / Engineering Teacher) 8/06 – 6/2007
 - Applied Programming with C++ on MS-VS 2003/ MS-VS 2005
 - Java Programming w/ SUN Java SDK 1.5.08
 - Advanced Programming with C++ on MS-VS 2003/ MS-VS 2005
 - Java Programming w/ SUN Java SDK 1.5.08
 - Technology II programming with Visual Basic .NET on MS-VS 2003/ MS-VS 2005
 - Infinity Project I & II, a mix of topics ranging from hardware/software to cryptography to network security along with video, audio, sound (Independent Study)
 - Programming with JKarel, A Robot software with Java like syntax.

PROJECTS

- <https://github.com/freemanbach>

EDUCATION

- Master of Science, CyberSecurity, [Cal State @ San Marcos](#) (San Marcos, California), 8/2025 – Present
- Master of Science, Computer Science, [Towson University](#) (Towson, Maryland), 1/2014 – 12/2017
- Master of Science, Education concentration in Computer Science, [Radford University](#) (Radford, Virginia), 1/2005 – 12/2006
- Bachelor of Science, Information Systems, [Virginia Commonwealth University](#) (Richmond, Virginia), 1997-2002
- Associate of Art, Germanic Language, [Virginia Commonwealth University](#) (Richmond, Virginia), 1997-2002

EXTRACURRICULAR ACTIVITIES

- CS Club at Solano
- Faculty Development
- Curriculum Committee