

Lawrence McKnight

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EDUCATION

Liberty University

Computational Mathematics, Bachelor of Science

GPA: 3.64 / 4.00 scale

Lynchburg, VA

March 2023

TECHNICAL PROFICIENCIES

- Languages: Python, SQL, HTML/CSS
- Libraries: Pandas, Matplotlib, NumPy, BeautifulSoup, Scikit-Learn, OpenCV, gTTS, Mediapipe
- Tools: MS Excel, Tableau, Git, VS Code, PyCharm, Jupyter Notebook, Atom

PROFESSIONAL EXPERIENCE

Fastenal Company

Developer, Hub Automation

Greensboro, NC

November 2022 - Present

- Creates features, solutions, and upgrades for warehouse sortation systems in CODESYS, SQL and C#
- Provides direct support to warehouse managers by monitoring and controlling the behavior of conveyors and sorters
- Assists in the development of web-based applications for supply chain and distribution

NetApp

Military Fellow/Software Engineer in Test

Raleigh, NC

January 2022 - April 2022

- Developed a script to automate the extraction, cleaning, and analysis of SAS and NVMe shelf log data
- Executed regression testing on 6G and 12G SAS shelves in preparation for maintenance release
- Participated in weekly core team stand-ups

United States Marine Corps

Small Arms Repairman

Camp Lejeune, NC

April 2018 - April 2022

- Managed preventative/corrective maintenance, replacement parts purchasing, monthly serialized inventories, issue and recovery of armory items, and daily accountability of sensitive assets
- Conducted quality control inspections of ~50 service requests weekly, ensuring proper execution of maintenance at an organizational level
- Prepared reports, briefs, letters, discrepancy statements and other documents, using word processing, spreadsheet, or presentation software

Projects

Heart Failure Mortality Prediction

- Trained a model using KNN to accurately classify 92.5% of a heart failure mortalities in the dataset using Scikit-Learn, Matplotlib, and Jupyter Notebook

TV Gesture Control

- Designed a hand-sign recognition system to control Roku TV's using the OpenCV and Mediapipe Python Libraries

ETF Portfolio Insights

- Created a Python script to automate a Tableau dashboard visualizing sector distribution and top holdings data for index fund portfolios

LEADERSHIP AND VOLUNTEER EXPERIENCE

Salvation Army International

Volunteer

Protected Area, Europe

October 2022 - November 2022

- Consulted the head of a Ukrainian refugee home on scalable, cloud solutions for recording intake, outtake, and demographic data of residents
- Wrote a script to automate the creation of a CSV daily/weekly chores schedule for its residents and staff

Alpha Gamma Omega, Upsilon Chapter

Vice President/Co-Founder

Boone, NC

January 2017 - December 2017

- Directed logistical components of fundraising and recruitment operations
- Assisted in the writing of the chapter bylaws and constitution

ACHIEVEMENTS/AWARDS

- Good Conduct Medal, United States Marine Corps

April 2021