Sasha Cvetkovic

Computer Science student specializing in automation

Social Networks

Sasha-A-Cvetkovic

randomscript7

Languages

Python

Java

C/C++

JavaScript

TypeScript

Other Technologies

Microsoft Office

Microsoft Azure

System Architecture

CCNA Networking Basics

Bash/zsh

Debian Linux

n8n

Docker

Soft Skills

Creativity

Quick learning

Time management

Collaboration

Public Speaking

References available upon request

Introduction

Results-driven Computer Science student proficient in Python and Debian-based Linux Systems. While initially interested in cybersecurity, focus has broadened to the design and implementation of efficient automation solutions. Maintains a robust portfolio of personal projects that explore various areas of technology. Eager to work with new and emerging technologies.

Education

Working towards BSc in Computer Science 2025-2029

Vice President of development infrastructure at 3DWestern.

- Designing, building, and curating an autonomous knowledgebase for club operations.

Projects & Experience

AgenticArmy

Designed and implemented a multi-agent AI development pipeline with a shared memory layer. Deployed as a VScode extension.

- User defines a project, and AI agents collaborate to complete it.
- Algorithm: Human defines goal, Draft plan, Human Approves plan, Create & assign tasks, Generate code per task, Merge code, (Human) approve final result.
- **Tech stack: Python, HTML, CSS, Typescript, JavaScript, FastAPI.**

Classroom AI Server

Server rigged to a Classroom LAN that locally hosted several LLMs of various parameter counts.

- Models used RAG with data sourced directly from course curriculums.
- Students from various courses could access the server to chat with two primary models:
  - Prentice: Used general networking datasets and given a personality, prepared for any question a student might have, while rejecting inappropriate questions.
  - Tutor: Used exam review datasets to help students study and give practice tests.
- Project was passed on to new students upon course end.
- **Tech stack: Python, Bash, OpenWebUI, HuggingFace, Docker, LlamaFactory.**

Undertaker

Personal toolkit of lightweight shell scripts for automating tasks to become familiar with Linux development.

- Focused on general automation and cybersecurity.
- Compatible with all Debian Systems including Ubuntu, Mint, and Raspbian for Bash/zsh shells.
- Initial offline development moved to GitHub in 2024.
- Project repository is periodically updated when new scripts are deemed stable.
- **Tech stack: Bash shell, Debian Linux.**

Glitchd

Lightweight CLI tool for adding a glitch effect to a static image via direct pixel processing. Optimized with full NumPy vectorization.

Features:

- GIF encoding via Pillow with zero external encoders
- Deterministic seeded RNG
- Dual compositing modes (stack sequential vs. average parallel-blend)
- Strict JSON config validation
- 30-GIF generator for testing and README showcase
- **Tech Stack: Python, Pillow, NumPy.**