

Yakiv Shapovalov

(509) 385-9108 | yshapovalov@ewu.edu | [linkedin.com/in/yakiv-shapovalov](https://www.linkedin.com/in/yakiv-shapovalov) | github.com/YakivShapovalov

EDUCATION

Eastern Washington University

Spokane, WA

BS, Computer Science Cyber Operations (GPA: 3.85) | Dean's List (3 Quarters)

Sep. 2025 – June 2028

- **Relevant Coursework:** Data Structures, Algorithms, Programming Principles (Java), C and Unix Programming, Operating Systems, Offensive Applications of AI, Network Security

Spokane Falls Community College

Spokane, WA

AS, Computer Science (GPA: 3.79) | Dean's List (3 Quarters)

June 2024 – June 2025

EXPERIENCE

AI-Powered Document Insights & Data Extraction Extern

July 2026 – Sep. 2026

Extern (in collaboration with Pfizer)

Remote

- Built Python-based AI pipelines using PyMuPDF, OCR (Tesseract, PaddleOCR), and RAG to process and classify complex, multi-page pharmaceutical vendor files (capable of scaling to 100+ page documents), automating manual data extraction workflows.
- Developed a RAG-based document retrieval system using LlamaIndex, integrating Google Gemini API and open-source LLMs (Mistral, Phi-2) with advanced chunk tuning and metadata filtering to optimize retrieval precision.
- Analyzed model trade-offs and benchmarked end-to-end OCR and routing performance, delivering a comprehensive technical report and an interactive Gradio chatbot UI that finalized deployment recommendations.

IT Support Specialist

July 2026 – Sep. 2026

WorkSource Spokane

Spokane, WA

- Analyzed technical information and evaluated system diagnostics to choose the best solutions for daily hardware, software, and network connectivity problems across Windows 10 and 11 environments, minimizing downtime for office staff.
- Supported cross-functional teams and managers by serving as the primary technical point of contact, translating complex technical issues into plain-language troubleshooting steps for end-users.
- Applied core computer science knowledge to real-world challenges by tracking, diagnosing, and resolving IT support tickets, ensuring the secure and efficient operation of Windows 10 and 11 workstations and peripherals.

PROJECTS

Web API Weather Forecast Plotter | Python, Bash, REST APIs, JSON, Matplotlib, Linux

October 2025

- Developed a Python-based networking application to resolve domain IPs via sockets and extract physical geographic coordinates using automated WHOIS system commands and JSON parsing.
- Visualized 160 hours of real-world temperature data by integrating the National Weather Service RESTful API, processing the data arrays with NumPy, and plotting the forecasts using Matplotlib.
- Engineered executable Bash scripts to automate concurrent testing across multiple domains, ensuring reliable API data extraction and system performance in a Linux/Ubuntu environment.

AWS Solutions Architecture Job Simulation | AWS Elastic Beanstalk, EC2, RDS, Python

July 2025

- Architected a scalable, distributed hosting infrastructure using AWS Elastic Beanstalk and EC2 Auto Scaling groups to resolve severe latency and growth bottlenecks for a startup client's web application.
- Integrated a comprehensive AWS stack including Route 53, Elastic Load Balancing, RDS, and S3 to support a mixed Python API and frontend web application.
- Eliminated deployment downtime by designing a continuous delivery workflow using AWS CodePipeline and Blue/Green deployment strategies.
- Analyzed client requirements to evaluate architectural tradeoffs, delivering a plain-language technical proposal that explained system mechanics and dynamic monthly cost calculations.

TECHNICAL SKILLS

Languages: Python, Java, SQL (PostgreSQL), Bash

Frameworks & Libraries: LlamaIndex, PyMuPDF, Gradio, Flask, NumPy, Matplotlib

Cloud & Infrastructure: AWS (Elastic Beanstalk, EC2, RDS, S3, CodePipeline), Linux/Ubuntu

Tools & AI: Google Gemini API, OCR (Tesseract, PaddleOCR), RAG Pipelines, Git, Docker

Certifications: AWS Cloud Practitioner Essentials, AWS Fundamentals of Machine Learning and AI