

# ELIYAHU KAINYAH YALLEY

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College Park, MD, USA

## EDUCATION

### University of Maryland

MS, Telecommunications Engineering, GPA: 3.59/4.0

College Park, MD

Expected May 2026

### Nanjing University of Information Science and Technology

BS, Electronics Information Engineering, GPA: 4.0/5.0

Nanjing China

June 2021

## SKILLS

**Programming Languages:** Python, JavaScript

**DevOps & CI/CD:** Docker, Kubernetes, Terraform, Ansible, Git/GitHub, Vagrant

**Cloud Platforms:** Azure, AWS, GCP

**Data & Database Management:** SQL, MongoDB, Redis, Apache Airflow, Data Pipeline Management, API Development, Web/Mobile Scraping

**Network Automation:** PyEZ, NetDevOps, RESTful API, Jinja2, NETCONF, Proxmox

**Tools & Platforms:** Wireshark, Power BI, Postman

**Certifications:** JNCIA-Junos, JNCIA-DevOps

## PROFESSIONAL EXPERIENCE

### University of Maryland

Graduate Teaching Assistant

College Park, MD

August 2025 – January 2026

- Conduct weekly laboratory sessions on network analysis tools, Linux networking administration, and Juniper router configurations.
- Mentor 8 students in practical networking skills including packet analysis using Wireshark and network troubleshooting techniques through 2 hours of weekly office hours.

### LongAI

Lead Software Developer

Shanghai, China

September 2023 – August 2024

- Developed Retrieval-Augmented Generation (RAG) chatbot and multi-agent software applications using Python and LangChain, enhancing data accessibility for 4 businesses across manufacturing, food and beverage, and compliance sectors.
- Built data analytics chatbot with cloud infrastructure on Azure, managing PostgreSQL and Zilliz vector databases, and containerizing applications using Docker.
- Implemented CI/CD pipelines using GitHub Actions, enabling multiple weekly deployments and ensuring code quality through automated testing.
- Managed a development team of 4, including mentorship of 2 interns, conducting code reviews and fostering professional growth in software and data engineering.
- Contributed to strategic planning, technical decision making, and cross-departmental collaboration, while presenting solutions to 5 prospective investors and clients at industry exhibitions.

### China Investment Market Knowledge (CIMK)

Data Engineer/Scientist

Nanjing, China

January 2022 – September 2023

- Engineered an alternative data platform using Python, FastAPI, and PostgreSQL, designing 5+ RESTful API endpoints for data access and integration to support financial decision-making for clients.
- Automated ETL workflows using Apache Airflow and Docker, orchestrating data pipelines from web and mobile scraping sources to Azure Blob Storage and PostgreSQL databases.
- Deployed Azure Services and Power BI for data visualization and reporting, delivering actionable insights to market research and finance teams.

- Collaborated with cross-functional teams to integrate diverse data sources into business operations, ensuring data quality and reliability.

**China Investment Market Knowledge (CIMK)**  
Software Developer Intern

Nanjing, China  
July 2021 – January 2022

- Performed data analysis on market datasets using Python libraries (NumPy, Pandas), creating interactive visualizations and reports with Plotly Dash.
- Implemented NLP models for sentiment analysis using spaCy, TextBlob, and VADER, processing financial news and market data to generate insights for client reports and publications.
- Developed data prototypes and contributed to the publication of data-driven reports and newsletters for clients.

## PROJECTS

**Juniper vSRX OSPF Lab - Automated with Terraform & Ansible**

March 2026

- Provisioned three Juniper vSRX VMs on a bare-metal Proxmox homelab using Terraform, automating OSPF Area 0 configuration via Ansible and NETCONF.
- Resolved SSH ProxyCommand tunneling for NETCONF connectivity through a Tailscale-secured jump host, enabling production-representative automation workflows.
- Managed secrets using Ansible Vault and Terraform variable files, auto-generated Ansible inventory from Terraform templates.

**xUtility – Personal Utility Web App**

October 2025 - Present

- Built a multi-feature React 19 + Vite SPA with Firebase Firestore for real-time persistence, featuring a movie watchlist (OMDb API), LeetCode tracker, and project challenge generator.
- Implemented responsive mobile-first UI with breakpoint-adaptive navigation; deployed via Netlify with continuous deployment on push.

## ACTIVITIES & LEADERSHIP

**Graduate Student Government (GSG)**  
ENTS Program Representative

College Park, MD  
September 2025 – May 2026

- Represent telecommunications graduate students in monthly legislative assemblies and advocate for international student affairs.

**Telecommunications Students & Alumni Network (TSAN)**  
President

College Park, MD  
June 2025 – May 2026

- Lead executive board operations and serve as primary representative to Graduate Student Government Assembly.

## LANGUAGES

Chinese (Conversational) | Nzema (Native) | Twi (Native)