

AROGYA PRATAP SHAH

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EDUCATION

Associates in Applied Science, Borough of Manhattan Community College

New York, USA | May 2026

Major: Computer Network Technology

Core Focus: Cybersecurity infrastructure, and Python programming

Bachelor in Science, John Jay College of Criminal Justice

New York, USA | Expected May 2028

Major: Computer Science and Information Security

Core Focus: Secure Online Networking, Structured Programming, and Ethics in Information Security

TECHNICAL PROJECTS

Self hosted Cloud server

- Built and deployed a private cloud on a Raspberry Pi 5 running Nextcloud and MariaDB in Docker
- Enabled secure remote access with Cloudflare Tunnel and Tailscale
- Set up monitoring with Netdata and Uptime Kuma, including a public status page and SMART health checks on the SSD
- Configured automated backups and validated recovery with a full power-loss resilience test
- Managed static networking with netplan and restored connectivity after changing ISPs and modems

Geospatial Data Analytics: Manhattan Infrastructure Map (Digital Earth Course)

- Analyzed large-scale urban datasets from NYC Open Data to identify and map street-level car parking areas in Manhattan
- Utilized QGIS to develop interactive data visualizations, translating raw geospatial coordinates into actionable infrastructure insights
- Implemented data filtering and cleaning techniques to ensure accuracy and reliability of the final visualization

Algorithmic Efficiency Research (Python Programming for Computer Science and Data Science Course)

- Conducted comparative analysis of Sorting Algorithms to determine optimal performance based on data size and complexity
- Applied findings to improve data processing efficiency in personal coding projects

Network Monitoring and Analysis (Telecommunication Network I Course)

- Conducted network monitoring and analysis using Wireshark to identify and resolve connectivity issues
- Analyzed network traffic patterns and identified potential bottlenecks in communication protocols
- Created subnetting plans for network optimization

WORK EXPERIENCE

Developer Intern | Evergreen Investments

Georgia, USA | July 2026 – September 2026

- Built workflow automations in n8n that pull listing data from Zoho CRM and generate photo templates for social media posts
- Integrated Zoho CRM, Zoho WorkDrive, and an AI rendering service (Ideal.house) through APIs to automate marketing content
- Developed a serverless function on Zoho Catalyst that converts authenticated photo links into public JPEG URLs using jimp for image processing
- Debugged the integration end to end, documented the findings, and escalated a platform-side issue to Zoho support with technical reference documents

Assistant Accountant And Tax Preparer | Maxx Services LLC

New York, USA | January 2026 – April 2026

- Practiced accounting principles to assist with financial record-keeping and reporting.
- Assisted in preparing tax returns and ensuring compliance with regulatory requirements.

- Utilized accounting software to maintain accurate financial records.
- Collaborated with clients to address accounting inquiries and provide guidance on financial matters.

Operations | Wholesale Pasal Plus

Kathmandu, Nepal | April 2022 – December 2023

- Engineered and maintained a responsive e-commerce platform to fulfill grocery needs during the pandemic
- Developed awareness of Cybersecurity risks through managing online transactions, and implementation of secure data protocols
- Orchestrated the full digital lifecycle, website management, order processing logic, and secure customer support systems

Research Assistant | JICA Partnership Program

Kathmandu, Nepal | September 2021 – January 2022

- Coordinated with international development teams to support sustainable infrastructure projects
- Conducted surveys and collected data to assess project impact and community needs
- Uploaded the data to a shared database for analysis and reporting

TECHNICAL SKILLS

- **Automation & Integration:** n8n, REST APIs, Zoho CRM, Zoho WorkDrive, Zoho Catalyst
- **Systems & Infrastructure:** Linux (Ubuntu), Docker, Raspberry Pi, Nextcloud, MariaDB
- **Networking Tools:** Cloudflare Tunnel, Tailscale, Static IP/Netplan, DNS, DHCP
- **Monitoring & Reliability:** Netdata, Uptime Kuma, SMART Disk Monitoring, Automated Backups
- **Programming:** Python (NumPy), JavaScript, HTML/CSS
- **Documentation:** Office Suite, Google Workspace
- **Networking & Security:** TCP/IP, OSI Model, Network Security
- **Data Science & GIS:** QGIS, NYC Open Data, Geospatial Analysis, Sorting Algorithms
- **Operations:** E-commerce Management, Data Entry, Supplier Relations