

Amir Reza Farhang

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EDUCATION

Rutgers University - New Brunswick, NJ

September 2024 – Present

Bachelor of Science in Computer Science and Mathematics

- 2025-2026 Coursework: Computer Architecture, Systems Programming, Discrete Structures, Mathematical Theory of Probability
- Relevant Coursework: Data Structures, Computer Architecture, Systems Programming, Linear Algebra
- Certifications (In Progress):
 - CompTIA Security+ — In Progress
 - MongoDB Certified Database Administrator Associate — In Progress

EXPERIENCE

Institute for Advanced Study

May 2025 – September 2025

IT/Network Engineering Intern ias.edu

Princeton, NJ

- Assisted with critical infrastructure upgrades in data centers, handling fiber optics, Ethernet cabling, network switches, and servers, gaining hands-on experience with enterprise-level systems.
- Developed a Python script to validate new infrastructure upgrades, automatically checking server connectivity, port functionality, and internet access, ensuring devices were correctly deployed and operational.
- Troubleshoot and maintained network hardware, including BIOS updates, UPS replacement, and wireless access point redeployment, improving system reliability and uptime.
- Configured and monitored network services, including IP address management (IPAM), optimizing connectivity and resolving network issues.
- Supported systems engineering workflows by updating fiber plant documentation in QGIS and automating administrative tasks in Excel, enhancing operational efficiency.

Rutgers University

September 2024 – Present (Fall/Spring semesters)

Student Worker – The Atrium Role food.rutgers.edu

New Brunswick, NJ

- Delivered fast and accurate transactions during peak campus hours, improving flow and reducing wait times.
- Resolved customer issues professionally, ensuring consistent service quality.
- Strengthened communication skills by providing friendly support, contributing to a positive campus experience.

PROJECTS (View on [GitHub](#))

LensifiedSelfie ([GitHub](#)) — *Animated sunglasses overlay using computer vision and deployment pipeline*

- Achieved accurate eye detection by building a dlib/OpenCV pipeline, enabling sunglasses to align precisely with facial features.
- Created animation of sunglasses using Bézier curves, enabling natural drop effects with accurate scaling and rotation.
- Enabled flexible user interaction by developing both CLI and PySide6 GUI interfaces.

Self-Hosted Photo Cloud (Raspberry Pi, Linux, Networking)

- Built a personal photo storage service replicating Google Photos/iCloud functionality, enabling automatic upload and browsing across devices
- Configured a Linux-based server with user permissions, shared folders, and secure access for reliable media storage
- Implemented local network and remote access, diagnosing connectivity and authentication issues across devices
- Secured the system using user account authentication and password-protected access controls

SKILLS

- Languages: Python, Java, C, SQL, HTML, CSS, JavaScript
- Tools: Git, Docker, Jupyter, Kandji, Excel, QGIS
- Libraries/Frameworks: Dlib, OpenCV
- Operating Systems: Linux (Arch, Ubuntu, Red Hat), Windows, macOS