

# MANNAN SHUKLA

Robbinsville, NJ

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## EDUCATION

### Rutgers University - New Brunswick

GPA - 3.5

Bachelor of Science - Computer Science

Expected May 2025

- Data Structures, Computer Architecture, Systems Programming, Discrete Mathematics, Design and Analysis of Algorithms
- RUSLUG, RU Security Club, Photography Club, Sailing Team, Design for America (DFA), IDEA

## EXPERIENCE

### Research Assistant

October 2023 - Present

Rutgers University Rail and Transit Program

New Brunswick, NJ

- Member of Xiang Liu's lab focused on using connected devices to improve railroad safety
- Currently looking at autonomous vehicle interactions with railroad crossings

### Founder

January 2024 - Present

Jersey Film Company

Robbinsville, NJ

- Founded brand with 4 investors to sell Kodak color positive film at NJ film labs and direct to consumer online
- Used **Figma** to design a direct to consumer online storefront (<https://jerseyfilmco.org>) and film labels
- Created online storefront using **css grid and flexbox** with a **FastAPI** backend and handled payments using **Stripe API**

### Marketing and IT Director

July 2023 - December 2023

American Louvered Roof

Trenton, NJ

- Designed and developed web presence using **Bootstrap** deployed on **Google Firebase** (<https://americanlouveredroof.com>)
- Managed all company servers, domains, email addresses, VoIP, and digital accounting overseeing thousands of dollars
- Fostered relationship with 3 major clients resulting in **current sales over \$30,000**

### Student Design Researcher

June 2023

Innovation, Design, and Enterpreneurship Academy at Rutgers

New Brunswick, NJ

- Developed **Full Stack Volunteer Management System** for non-profits with team of 5 design researchers in a 5 week program at Rutgers
- Designed intuitive **React** frontend powered by **REST APIs** served with **FastAPI** backend
- Implemented **pypdf** to streamline and automate form writing and recordkeeping, synced via **Google Sheets API**
- Presented finalized project and process to stakeholders, program directors, Deans at Rutgers, and the greater university community
- Secured contract to deploy for Robbinsville Hydroponic Farm at the conclusion of the project

## LEADERSHIP

### President

September 2023 - Present

Rutgers University Student Linux User's Group (RUSLUG)

New Brunswick, NJ

- Relaunched club following 12 year gap, developed constitution, recruited 20 members, and launched website (<https://ruslug.org>)
- Presented GPG encryption, IRC, and Gentoo Linux to club members
- Hosted installfest, keysharing events, howto presentations, lan parties, and group discussions
- Responsible for outreach, collaboration with other clubs at RU, and joint events with other Student Linux User Groups

## PROJECTS

### openview | React, NodeJS, ExpressJS, MongoDB

2024

- Developed full-stack web app for viewing personal photography portfolio using **Express** serving **REST API** with **React** frontend
- Added support for tagging, albums, downloading via an optional CLI friendly interface, and displaying EXIF data

### zipgig | Python, FastAPI, Bootstrap, MongoDB

2023

- Created a full-stack web application to help users find one day jobs and gigs
- Utilized **Bootstrap** and **Jinja templating** to create a dynamic and approachable frontend
- Implemented **FastAPI** and python to implement a simple yet powerful REST API for backend
- Incorporated **MongoDB** database for efficient querying to eliminate wait times for all users and post data

### clapmaster | Python, Raspberry Pi, OpenCV

2023

- Designed rhythm game for **Raspberry Pi** - a motor generates a randomly generated vibration beat, users must repeat the beat with claps
- Utilized **computer vision** to detect hand placement and claps
- Devised algorithm to generate beat patterns with increasing difficulty

## TECHNICAL SKILLS

**Languages/Frameworks:** Java, Python, C, JavaScript, React, Node.js, FastAPI, Flask, Bootstrap, MongoDB, tensorflow, HTML/CSS

**Developer Tools:** Git, Docker, Linux, AWS, Firebase, vim, agile, Jira