MANNAN SHUKLA

Robbinsville, NJ

(609) 575-0436 | mannanshukla@icloud.com | linkedin.com/in/mannanshukla | github.com/mannanshukla

EDUCATION

Rutgers University - New Brunswick   GPA - 3.5
Bachelor of Science - Computer Science   *Expected May 2026*
- Data Structures and Algorithms, Computer Architecture, Discrete Mathematics, Linear Algebra
- 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*
- Working under Dr. Xiang Liu researching how autonomous vehicles can safely pass railroad crossings without warning devices.

Marketing and IT Director   July 2023 - Present
American Louvered Roof   *Trenton, NJ*
- Designed and developed web presence using Bootstrap deployed on Google Firebase (https://americanlouveredroof.com)
- Manage all company servers, domains, email addresses, VoIP, and digital accounting overseeing thousands of dollars
- Formalized next-generation regional marketing strategy using social media plus traditional face to face techniques
- Fostered relationship with 3 major clients resulting in current sales over $30,000

Student Design Researcher   June 2023
Innovation, Design, and Enterprenuership 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 University
- Located, Interviewed, and Consulted 5 key stakeholders from the Mercer and Middlesex County area
- 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 and recruited 20 members
- Responsible for all recordkeeping and communications with Rutgers CS and Involvement Departments
- Hosting installfests, keysharing events, howto presentations, lan parties, and discussions
- Launched and maintained all community outreach and Linux servers for website, games, and libre services

PROJECTS

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

headcount | *Python, FastAPI, React, MongoDB, pypdf, Google Sheets API, git*   2023
- Developed a full-stack web application for volunteer management using FastAPI serving a REST API with a React frontend
- Implemented pypdf to make writing forms easier and to fully automate recordkeeping, saving hours of searching
- Integrated Google Sheets API to automaticially generate spreadsheets containing user data and records for easy submission

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
- Created algorithm to generate beat patterns with increasing difficulty

TECHNICAL SKILLS

Languages: Java, Python, C, JavaScript, HTML/CSS
Frameworks: React, Node.js, FastAPI, Flask, Bootstrap, MongoDB, tensorflow, pandas
Developer Tools: Git, Docker, Linux, AWS, Firebase, vim
Certifications: AWS Cloud Practitioner - In Progress, ISC2 CCSP (Certified Cloud Security Professional) - In Progress