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# Dayyan Hamid

## Software/Data Engineer

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### EDUCATION & CERTIFICATIONS

**Major: Computer Science**, Rutgers University, New Brunswick, NJ Graduated — May 2025

*Relevant Coursework:* Principles of Info and Data Management, Data Structures, Discrete Mathematics, Systems Programming, Computer Architecture, Operating Systems and Design, Machine Learning Principles, Linear Optimization, Intro to Artificial Intelligence, Design and Analysis of Computer Algorithms, Probability and Statistics

**Certifications:** *Software Design — Data Science Fundamentals — PowerBI Desktop*

**Currently Pursuing:** *AWS Cloud Practitioner*

### TECHNICAL EXPERIENCE

**QA Junior Document Control Analyst** Jun 2025 — Present

*Regeneron Pharmaceuticals* East Greenbush, NY (Contract)

- Managed GxP compliant documentation using OpenText, myQumas, and TrackWise; ensured accuracy, traceability, and SOP alignment for pharma records.
- Improved internal SharePoint site by adding features and streamlining workflows, enhancing usability and cross-team document access.

**Software Engineer** Mar 2025 — Present

*CollabLab* Remote (Contract)

- Engineer #5 at an education tech startup under Troy Tutors; contributed full-stack using Node.js, Express, Socket.io, Vue.js, MongoDB, and Daily.co for platform launch 2.0 and upcoming 3.0
- Owned and delivered the “camera required” feature to enforce video access in tutoring and proctored exam rooms, including frontend toggles and backend enforcement.

**QA IRM Developer Intern** May 2024 — Sep 2024

*Regeneron Pharmaceuticals* East Greenbush, NY

- Developed applications using Microsoft Power Automate, JSON, Power BI, SharePoint, SQL, and PowerApps for cross departmental use; worked with a team of Software Developers to maintain these tools post-internship.
- Created and launched a SharePoint site to streamline department requests, handling over 1000 unique submissions in its first week, Increasing efficiency by 27%; received a superlative award from FTEs and a program extension for my contributions.

### PROJECTS

**Custom Neural Network Model Generator Web Application** *Flask, PyTorch, React.js, Docker, TensorFlow* | Dec 2024 — Mar 2025

- Built a full stack machine learning application for training, testing, and exporting custom image classification models.
- Initially developed as a machine learning class assignment to recreate the LeNet-5 architecture using Python and select libraries.
- After the assignment, I independently Enhanced model accuracy by 40% with techniques like batch normalization, dropout, data augmentation, and customizable optimizers to improve generalization and support more diverse datasets.
- Designed a seamless communication pipeline between a React front end and a Flask back end, enabling real time model configuration, training progress updates (dynamic loading bar), and efficient data exchange for testing and exporting models.

**Crime Catcher AI Security System (Team Hackathon)** *Tkinter, Flask, OpenCV, Vue.js, SQLite, PyTorch* | Nov 2024

- Developed an AI powered security system that monitors data feeds to detect weapons using machine learning models like YOLO.
- Implemented motion detection to optimize resource usage, ensuring processing only occurs when movement is detected.
- Integrated real-time alerts via email for weapon detection by setting up automatic recording when motion/dangerous objects were detected and emailing recordings to clients.

### EXTRACURRICULAR/LEADERSHIP ROLES

**Collegiate Powerlifter**, Rutgers University Sep 2023 — Present

- Participated in and organized several powerlifting competitions, earning 6th place in the East Coast for the 67.5kg weight class (December 2024) at Collegiate Championships and qualified for Collegiate Nationals.

**Secretary (Executive Board)**, Pakistani Student Association Sep 2022 — May 2025

- Organized events, managed communications, and developed an **NFC based attendance system** for the Pakistani student community at Rutgers.

**Server/Key Employee**, PJ's Pancake House Jun 2020 — Aug 2022

- Earned key employee responsibilities, including opening and closing the restaurant, ensuring smooth operations, and managing cash handling procedures. Began as a busser/dishwasher and was promoted to server within 2 months.

### SKILLS

<b>Programming Languages</b>	JavaScript, Python, Java, C#, C/C++, SQL, HTML, CSS, XML, JSON, Microsoft Power Query, LaTeX
<b>Frameworks &amp; Libraries</b>	Node.js, Vue.js, React.js, Express, Flask, .NET, WordPress, Socket.IO, OpenCV, PyTorch, Tkinter
<b>Development Tools</b>	Git, MongoDB, PostgreSQL, MS SQL Server, Power BI, Power Automate, Power Apps, SharePoint