

NIVAR SHERWANI

U.S. Citizen | +1 (202) 903-4468 | nivarsherwani0@gmail.com | [linkedin.com/in/nivar-sherwani](https://www.linkedin.com/in/nivar-sherwani) | github.com/nivarSh

EDUCATION

Virginia Polytechnic Institute | Blacksburg, VA
3.85 GPA, B.S. Computer Science

August 2022 - May 2026

PROJECTS

DeepWork: Science-Based Productivity App | React, Flask, SQLite3, Javascript

- Developed a full-stack web app aimed at enhancing student productivity by offering personalized study data visualizations, study tips, a task list, and a customizable timer.
- Integrated user authentication using Flask, with secure password hashing stored in SQLite3.
- Implemented user-specific study data visualizations using Flask sessions and Matplotlib, allowing users to track their productivity over time.

Machine Learning Nail Biting Prevention | Python, Mediapipe Library

- Developed a Python application that analyzes real-time camera data, achieving roughly 85% accuracy in detecting nail-biting behavior by calculating the Euclidean distance between each fingertip and the mouth.
- Designed a prevention system that triggers an alarm upon detection, successfully eliminating personal nail-biting habits within three weeks of use.
- Leveraged the Mediapipe pre-trained machine learning models to perform hand and face recognition.

Bloomberg Tech Lab | Python

- Learned from Bloomberg engineers to develop a comprehensive financial portfolio management system modeling real-world entities such as securities, positions, accounts, and portfolios.
- Designed a portfolio visualization tool using bqplot, enabling interactive analysis of financial trends.

EXPERIENCE

Firstgen Pioneers Non-Profit | Founding Member, Web Developer

November 2024 – Present

- Contributed as a founding member of Firstgen Pioneers, a non-profit organization dedicated to supporting first-generation and international students in navigating the workforce and securing employment.
- Designed and developed the organization's website and brand identity, creating a user-friendly platform to deliver professional development content, including recorded interviews, job search resources, and training materials.

CodeKids Research Virginia Tech | Machine Learning Researcher

August 2024 – Present

- Developed interactive learning resources on computer science topics, tailored for young students.
- Researched AI algorithms (e.g., K-Means clustering) and designed engaging lessons to make complex concepts accessible to children.

Soran University of Kurdistan | Software Developer

April 2024 – May 2024

- Aided in the development of a mobile app to detect if the user has entered a known active mine zone in the Kurdistan region by using the Geolocation and Geolib frameworks in React Native.
- Optimized location update frequency by implementing a distance filter that updates only if the user moves 50 meters, reducing power consumption by 20%.
- Collaborated with the Mine Action Agency to extract and import known coordinates of mine zones into Native, formed polygons with dozens of coordinates, treating them as vertices and storing them in an object.

Souzou Studios | Founder, CEO

September 2023 – Present

- Managed all areas from product design to supply chain logistics, including web development, accounting, marketing, and brand identity of the clothing brand; led a team of 3 employees.
- Engineered automated email and SMS marketing funnels with Klayvio, driving customer engagement.

SKILLS

- **Languages, Frameworks, Tools:** Java, Python, JavaScript, SQL, HTML/CSS; Flask, React, JUnit; Git, Visual Studio, Eclipse IDE, Figma, Jupyter Notebooks