

# NIVAR SHERWANI

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## EDUCATION

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

August 2022 - May 2026

## PROJECTS

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### **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

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### **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 Virginia Tech** | Frontend Developer

August 2024 – Present

- Created interactive educational books to teach kids computer science fundamentals, including input/output, basic computer architecture, and hands-on micro:bit projects.
- Developed modular React.js components for an educational book editor, enabling seamless integration of micro:bit hardware interactions and embedded video content.

### **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%.

### **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

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