

# SOULEMANE SOW

Greater New York City Area

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## Education

**Manhattan Center for Science and Mathematics**

**Expected June 2026**

*High School Diploma*

## Technical Skills

**Languages:** Python · JavaScript · TypeScript · Java

**Frameworks & Libraries:** React.js · Next.js · TailwindCSS · OpenCV

**Tools & Platforms:** Vercel · Supabase · Postgres · Bun · Onshape API · D3.js

## Projects

**TrueSight – AI-Powered Custom-Fit Glasses Platform** | *Next.js, Python, TypeScript, OpenCV, [GitHub](#)* **Feb 2025**

- Winner, Best High School Hack at HackNYU 2025 (Feb 8–9, Brooklyn, NY): Computer-vision platform for affordable, customized, 3D-printable eyewear.
- AI Facial Scanning: Leveraged OpenCV for precise facial measurements to enable fully personalized eyewear designs.
- Onshape API Integration: Generated customizable 3D models ready for 3D printing to reduce costs and improve fit.

**Hive – AI-Powered Construction Reporting** | *TypeScript, Next.js, Supabase, [GitHub](#)* **Jan 2025**

- 1st Place at ConTech Alliance Hackathon: Built in a 12-hour hackathon against 50+ participants; automated daily construction reporting.
- Automated Reporting: Streamlined construction reporting with an intuitive drag-and-drop editor; up to 80% faster workflows.
- AI-Driven: Integrated Hivemind AI for report generation and insights extraction; reduced human errors by 60%.

**Culina AI** | *Python, HTML, CSS, JS, [GitHub](#)* **Dec 2024**

- Hackathon Top Performer: AI app that automates recipe creation based on ingredient recognition.
- 95% Accurate Ingredient Recognition using computer vision on uploaded ingredient images.
- AI-Driven Sustainability & Personalization: Handles dietary restrictions/allergies; reduced food waste by up to 40%.

**Research Paper Analysis Tool** | *HTML, CSS, JS, Python, [GitHub](#)* **Nov 2024**

- Top 3 Winner: Built in a 5-hour hackathon; AI research analysis with claim-evidence extraction and cross-referencing.
- 70% Faster Research Insights via automated document processing and D3.js discourse visualization with Julep API.

## Experience

**Software Developer**

**Jun 2025 – Present**

*JBI Software, INC*

*New York, NY (Hybrid)*

- Deployed multi-module features to Vercel and improved user experience with real-time updates.
- Partnered with designers to deliver responsive UI and high performance across devices.
- Tech: TypeScript, Next.js, Tailwind, Bun, Postgres.

**Software Engineer**

**Dec 2024 – Present**

*A Represented Smile*

*New York, NY*

- Designed and developed responsive, intuitive UIs using HTML, CSS, JavaScript, and React.js; improved accessibility for 100 daily visitors.
- Optimized performance, improving site responsiveness and reducing load times by 30%.
- Collaborated with backend developers and designers to integrate dynamic features for scalability and maintainability.

## Activities

**HackNYU 2025** — Winner (Best High School Hack); *TrueSight. Feb 8–9, 2025 · Brooklyn, NY*

**ConTech Alliance Hackathon** — 1st Place (Grand Prize); *Hive. Jan 25 - 28 2025 · New York, NY*

**AmpliCode Hackathon 2025** — Overall Winner (1st Place); *SafeWalk. Apr 30–May 30, 2025 · Online*

**Nosu AI Hackathon** — Winner (Top Prize); *Rotcipe. Early 2025 · Online*

**MiniMedi Hackathon** — 3rd Place; emergency response platform for dispatchers/responders. *Dec 2024*

**Tron Hackathon** — 3rd Place; blockchain platform for minting, trading, and loaning assets as NFTs. *Nov 2024*