

MANOJ VENKATESUN MANOHARAN

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PROFESSIONAL EXPERIENCE

Our Ability Inc.

Chennai, TN

Product Engineer – AI-powered disability employment platform

Jan 2026 – June 2026

- Developed an AI-powered job-matching engine spanning a 2,000-candidate pool by building SOC code auto-generation and ranking logic in FastAPI with GPT-4o-mini, run through two cron-based scheduled jobs.
- Engineered a conversational Twilio SMS survey system reaching an initial cohort of 250 candidates by building per-phone-number state tracking, response classification, and profile enrichment, with A2P 10DLC compliance.
- Standardized vendor export formats across 6 ATS platforms by researching integration requirements and designing a dynamic mapping template for Our Ability's candidate schema.
- Architected a multi-source RAG pipeline spanning AskJAN.org, 10 ADA regional sites, and a proprietary source by defining the ingestion structure and topic guardrails for a disability Q&A app, validated in sandbox with dashboard integration underway.

PlatePost

Sunnyvale, CA

Product Engineer - Video-first mobile ordering platform for restaurants (Techstars-backed)

Apr 2024 – Jan 2026

- Deployed a white-label VideoMenu template system to 15+ restaurant clients, building the product from concept to live rollout as the sole product owner on a 3-person team.
- Generated +\$946 in incremental revenue at Kei Coffee House (5,798 QR scans over 4 weeks) and a 15% sales increase at WYWH Coffee through live pilots that validated the product in real restaurant conditions.
- Shipped 3 products to production (marketing site, VideoMenu app, and Creator Program) as the sole engineer on a 3-person team.

iConsult Collaborative, Syracuse University

Syracuse, NY

User Experience Designer - Mobile shift-scheduling app for 200+ campus food service workers

Mar 2023 – Mar 2024

- Cut shift-swap time from 30+ minutes to under 30 seconds for 200+ student workers by designing a mobile app from scratch to replace a paper-based system that needed a supervisor present for every change.
- Hit 100% first-attempt task completion with no guidance across 8 student workers by designing a swap flow.

Case at Syracuse University

Syracuse, NY

UX Designer - serving users with diverse disabilities (WCAG 2.1)

Aug 2022 – Jan 2023

- Brought Our Ability's job-search platform to WCAG 2.1 AA compliance (8.08:1 contrast on primary text, all interactive elements keyboard-navigable) by redesigning it over a 12-week sprint for users with diverse disabilities.
- Raised task completion from 50% to 100% across 5 usability tests by redesigning the candidate portal, job-search flow (filters and a match-percentage badge), and application flow.

PROJECTS

Motor Archive – Car Intelligence Platform (Node, Express, MongoDB, JWT) ([GitHub Link](#))

- Built a REST API backend with Express and MongoDB Atlas, including user signup and login with bcrypt password hashing and JWT-based authentication middleware.
- Designed a User model with soft-delete support in Mongoose and verified all auth routes and edge cases through Postman testing.
- Integrating the NHTSA vehicle API and Anthropic API to power VIN lookup, recall research, and ownership tracking across two product modes.

API-Driven Component System (React, Redux Toolkit) ([GitHub Link](#))

- Built a nested Users/Albums/Photos data hierarchy in Redux Toolkit using both async thunks and RTK Query in the same app, working through tradeoffs between each pattern firsthand.

EDUCATION

Springboard, Software Engineering Career Track Certificate

Expected Aug 2026

Syracuse University

Syracuse, NY

Master of Science, Information Systems (GPA: 3.8)

Aug 2021 – May 2023

Anna University

Coimbatore, India

Bachelor of Engineering, Computer Science and Engineering (CGPA: 7.66)

Aug 2017 – Apr 2021

TECHNICAL PROFICIENCIES

Frontend: JavaScript (ES6+), TypeScript, React, Redux Toolkit, HTML, CSS, Tailwind CSS

Backend & Databases: SQL, PostgreSQL, MongoDB, SQLite, REST APIs, FastAPI, Flask, Twilio

AI & Automation: OpenAI API, RAG Pipelines, GPT-4o-mini, APScheduler

Tools: Git, GitHub, Postman, Vercel, Jest

CERTIFICATIONS

Springboard - Software Engineering Bootcamp, Python for Everybody