

Manu Deva

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EDUCATION

Northwestern University

Evanston, IL

B.S. in Computer Science | Minor in Economics | Concentration in AI

June 2025

- **Awards:** Dean's List, Northwestern Scholarship, CS Undergraduate Innovation Fellowship, ROTC Scholarship
- **Coursework:** Databases, Full Stack Engineering, Deep Learning, Scalable Architectures, Corporate Finance

TECHNICAL SKILLS

Languages: Python, Java, TypeScript, C++, C, R, SQL, JavaScript, C#, Scala, MATLAB

Frameworks/Libraries: React, Node.js, Spring, TensorFlow, JUnit, Jest, Angular, Next.js, PyTorch, NumPy

Developer Tools: Git, AWS, Jenkins, Linux, Gradle, Postman, Splunk, Kubernetes, GCP/GCR, Docker, NPM

EXPERIENCE

Associate Software Engineer

Aug 2025 - Present

UKG

Lowell, MA

- Deliver **Java, Node.js, and Typescript** platforms powering AI-driven workforce management insights.
- Implement automated test infrastructure and environment deployment with **Kubernetes and Jenkins CI/CD**.
- Develop **15+ integration tests** with Playwright, validating parallel API execution and component rendering.
- Utilize Splunk and Arize AI in log analysis and query observability for a **95% production defect closure rate**.
- Enhance Bryte agent accuracy across 7+ intents through sample validation and **LLM response templating**.

Founding Backend Engineer

Apr 2025 - Jul 2025

Nyck AI

Evanston, IL

- Build production-ready infrastructure using **Node.js (Next.js) and PydanticAI** to enable agent modularity.
- Integrate **REST APIs** with memory persistence and custom orchestration for **multi-agent workflows**.
- Design **PostgreSQL schemas in Supabase** to support ERP-style pricing, inventory, and procurement logic.

Applied Data Science Intern

Jun 2024 - Dec 2024

SONIC Research Group

Evanston, IL

- Deployed a **multi-label sentiment analysis classifier** by fine-tuning a RoBERTa model using **Hugging Face**.
- Wrote **ETL** scripts for data ingestion and preprocessing to support labeling and model training in **PyTorch**.
- Boosted classification accuracy by **10–15%** through hyperparameter tuning and continuous dataset rebalancing.

Chief Technology Officer

Oct 2022 - May 2024

Student Holdings

Evanston, IL

- Delivered **automated reporting pipelines in Excel, Zapier, and Tableau** to monitor a \$5,000+ budget.
- Enabled **data-driven analysis** and business strategy to meet quarterly KPIs across 4 student-run businesses.
- Mentored a cross-functional **Agile** team of analysts and contributed to over **\$100,000** in annual revenue.

Frontend Software Engineer Intern

Apr 2023 - Sep 2023

Origin Robots Company

Chicago, IL

- Built a cross-platform **React & Electron** desktop app for real-time control of custom-PCB TPU prosthetics.
- Prototyped responsive UI components in **Figma** and integrated low-latency **serial communication** protocols.
- Maintained technical docs and company website using Sanity CMS, helping secure **\$5,000+ in NSF funding**.

PROJECTS

SuggestMe | Next.js, JavaScript, AWS, Tailwind

Dec 2024 - Present

- Developing a **full-stack** recommendation platform for personalized concert discovery and playlist creation.
- Built frontend using **React** and **Tailwind CSS** with **Redux** for persistent state and authentication.
- Practiced **CI/CD** using the **Serverless Framework** with **AWS Lambda** and **RESTful API** endpoints.

RetroScan | C, Linux

Sep 2024 - Dec 2024

- Designed and implemented an **embedded system** to RFID-tag and display data from records and VHS tapes.
- Wrote RFID and display drivers in **C** for the Nordic nRF52833 SoC on the **Microbit v2 microcontroller**.
- Utilized **low-level I2C, ADC, and SPI communication protocols**, supporting metadata acquisition.

PAM | Python, SQLite3, Flask, AWS

Oct 2023 - Apr 2024

- Architected a **large language model** to act as a virtual AI receptionist for Northwestern's CS department.
- Integrated **GPT-4** with **SQLite3** to create a **conversational data pipeline** deployed with **Flask** on **EC2**.
- Streamlined information access to **60+** professors and events, and reduced query time by **40%**.