

Curriculum Vitae

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Sweeda Noronha

Lead Engineer Software

Professional Summary

Innovative and results-driven Senior Software Engineer with 8+ years of experience in software development, specializing in Python, data extraction, APIs, and scalable frontend systems. Passionate about AI, with recent hands-on experience building full-stack applications using semantic search and document understanding. Proven ability to lead cross-functional teams and deliver end-to-end solutions in fast-paced environments.

Key Skills

- **Programming Languages:** Python, JavaScript, TypeScript, SQL, C/C++ (academic)
- **Frameworks & Libraries:** React, REST API, PrimeReact, AntD, FastAPI, Pytest, JEST, Azure DevOps, Next js, Tailwind CSS
- **Tools & Technologies:** Docker, Git, SVN, JEST, Storybook, Figma, PyMySQL, QlikView, Postman , CI/CD (yaml scripting)
- **Database Management:** MySQL, SQL-based queries, Data Extraction
- **Project Management:** Agile Methodologies, Jira, Cross-team Collaboration
- **Operating Systems:** Windows, Linux

Work Experience

AI-Powered Product Search Platform – Personal Side Project

Tech Stack: Next js, Semantic Search, TailwindCSS, TypeScript

- Developed a full-stack product discovery dashboard that allows users to search product documents using natural language queries powered by AI.

- Implemented semantic search using SentenceTransformers to retrieve relevant products from vectorized document contents (PDF/DOCX/TXT).
- Enabled file storage and retrieval with MongoDB GridFS, including secure download features.
- Built admin and user portals with file management, suggestions, and analytics dashboards using React, Tailwind, and FastAPI.
- Integrated asynchronous file extraction and AI-based content parsing for intelligent document ranking.

Validation Framework for Automation Testing -Anora Semiconductor Labs (Dec 2024 – July 2025)

Tech Stack: React, FastAPI, Python, MongoDB, GridFS, TypeScript, CI/CD

Spearheaded the design and development of a framework to display and manage instruments connected via serial ports.

- Created UI/UX designs using Figma, ensuring brand consistency.
- Led a team in developing backend APIs using Python FastAPI and managing frontend using React.
- Developed APIs for Git operations using Python FastAPI.
- Developed yaml pipeline files for build and release.
- Implemented automation test cases using JEST, significantly improving the testing process.

Pick and Place Arm Handler – Anora Semiconductor Labs (Nov 2023 – Dec 2024)

Tech Stack: React, FastAPI, Python, MongoDB, GridFS, Modbus protocol

Led the development of a system to automate semiconductor device handling for testing, integrating sensors, motors, and camera-based alerts.

- Collaborated with the embedded team to ensure seamless serial port communication.
- Designed and developed frontend prototypes, facilitating smooth calibration and test operations.
- Developed and styled React components, ensuring seamless interaction with backend APIs.

Timing Configurator - Client: SiTime (June 2022 - Nov 2023)

The Project is for displaying various devices which are accessible to user and displays respective configurations, block diagrams and registers with respect to devices, and allows user to add/edit/delete the configurations. With the team of 4, we were working on the frontend development to build a single page application which uses the backend APIs for extraction of data that needs to be displayed and Azure for login related events.

Roles and Responsibilities:

- Building the HTML components and styling the components
- Built the frontend app using React-JS, which connects the backend API for extracting the data and displaying it in react app using axios and azure for login.
- Building the testcases using JEST to test the API endpoints.
- Working with python team on the requirements and REST Api related frontend level testing

- Working with an UX-UI designer on design level implementation.

Software Engineer (Consultant) Qualcomm India Pvt (Jan 2018 -June 2022)

- Developed Python scripts to automate data extraction and processing for DFT/TEST engineers, improving data accuracy and accessibility.
- Utilized **MySQL** to design and maintain databases, facilitating efficient data storage and retrieval.
- Built and maintained **APIs** for backend operations and developed React-based frontends to visualize test specification data.
- Created data visualization dashboards using **QlikView**, enabling stakeholders to gain actionable insights from complex datasets.
- Worked on dashboarding tools to display the data and representing them graphically using QlikView software.

Employments

Anora Semiconductor Labs
Freelancing via Worknodes

Oct 2017 – July 2025
August 2025 - Ongoing

Education

Electronics and Communication (4 Year bachelor’s degree in engineering)
Shri Madhwa Vadiraja Institute of Technology & Management

2013 - 2017

Languages

English
Swedish

Full professional proficiency
Beginner (Study Ongoing)