

# Curriculum Vitae



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Gothenburg, Sweden



## 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 - Present)**

**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**

<b>Anora Semiconductor Labs</b>	Oct 2017 – Ongoing
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**Education**

<b>Electronics and Communication (4 Year bachelor’s degree in engineering)</b>	
Shri Madhwa Vadiraja Institute of Technology & Management	2013 - 2017

**Languages**

English	Full professional proficiency
Swedish	Beginner (Study Ongoing)