

DHEENA DHAYALAN

Solutions Engineer Intern

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https://www.linkedin.com/in/dheena-dhayalan-b694b2395?utm_source=share&utm_campaign=share_via&utm_content=profile&utm_medium=android_app

Portfolio: <https://dheenadhayalanb-8s9dzbu.gamma.site/> |

Live Products: <https://policy-path-theta.vercel.app/> |
<https://nexgen-capital-lab.vercel.app/> | <https://scwnhackathon.lovable.app/> |

PROFESSIONAL SUMMARY

Solutions Engineer Intern with strong experience designing end-to-end technical solutions and translating business problems into reliable system workflows. Proven ability to explain complex systems to non-technical stakeholders, design solution architectures under real-world constraints, and support implementation through close collaboration with engineering and product teams. Experienced across AI-driven platforms, full-stack systems, and system-level demos in startup and competitive environments.

CORE SOLUTIONS ENGINEERING SKILLS

Solution Architecture & Workflow Design

Customer & Stakeholder-Facing Demos

Technical Requirement Translation

System Constraints & Edge Case Handling

Pre-Implementation Planning

Cross-Functional Collaboration

TOOLS & TECHNICAL FOUNDATION

Frontend: HTML, CSS, JavaScript, React

Backend: Python, FastAPI, REST APIs

Databases: Supabase (PostgreSQL, Auth)

Deployment: Vercel CI/CD, PWA

Documentation: Solution Docs, Flow Diagrams, Demo Scripts

EXPERIENCE

Founder & Solutions Engineer

NexGen Capital Lab — Madurai, India

Nov 2025 – Present

Designed and presented technical solutions for early-stage products, translating abstract ideas into concrete system workflows.

Explained product architecture, execution logic, and system constraints to non-technical audiences.

Designed solution flows before implementation, ensuring clarity on scope, feasibility, and trade-offs.

Worked closely with execution teams to guide implementation aligned with designed solutions.

Created structured documentation and demo narratives to communicate system behavior clearly.

Solutions Engineer (Product & Systems)

PolicyPath AI — Madurai, India

Jan 2026 – Present

Designed end-to-end solution workflows for an AI-driven learning platform, aligning user needs with system behavior.

Defined rules, constraints, and edge cases governing system responses and progression.

Collaborated with engineering to translate solution designs into implemented features.

Explained system logic, evaluation flows, and trade-offs to stakeholders and peers.

Balanced solution completeness with delivery speed under technical and time constraints.

PROJECTS

Smart City Waste Nodes (SCWN)

Systems Solution Project | National Hackathon – 2nd Overall Runner-Up

Designed a system-level solution for urban waste management under real-world constraints.

Created solution architecture covering node states, workflows, and failure handling.

Pitched and demoed the solution to judges, walking through system logic and trade-offs.

Justified scope decisions and design trade-offs during live evaluation.

Led solution explanation and stakeholder communication for the team.

ACHIEVEMENTS

National Hackathon – 2nd Overall Runner-Up

EDUCATION

Class 11 – CBSE (Commerce)

Political Science Major

June 2025 – April 2027