

# Arnav Deka

[arnavdeka2005@gmail.com](mailto:arnavdeka2005@gmail.com) • +919209939705

<https://www.linkedin.com/in/arnavdeka2005> • <https://github.com/Arnavcloud0412>

Full Stack Developer Intern

## Summary

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Third-year Computer Engineering student with hands-on experience building and scaling full-stack web applications used in real production environments. Strong in backend APIs, databases, and frontend dashboards using React/Next.js and Flask. Experienced in handling high-traffic systems, integrations, and debugging real-world issues. Actively seeking a Full Stack / Backend Developer Intern role to learn and contribute to production systems.

## Skills

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- Languages: Python, JavaScript, C, Java
- Backend: Flask, REST APIs, SQLAlchemy, Prisma
- Frontend: React, Next.js, HTML, CSS, Tailwind CSS
- Databases: PostgreSQL, MySQL, Firebase Firestore
- Tools & Platforms: Git, Vercel, Google Cloud Console, Firebase Console
- Concepts: API Integration, Database Design, Authentication, Debugging, System Reliability

## Work Experience

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### Full Stack Developer – Alegria MIS

Pillai College of Engineering - Alegria • Full-time

Mumbai, India

Technologies: Next.JS • PostgreSQL • Prisma • Google Apps Script • Google Sheets • REST API • Data Visualization

- Designed, developed and deployed a full-stack MIS web application used for registrations, receipts, attendance tracking and real-time operations during a large-scale college fest.
- Officially adopted by the Pillai Group of Institutions as the central MIS platform for Alegria operations.
- Supported ₹17 lakhs+ in verified collections and 10,000+ receipts during Alegria with zero duplication under peak concurrency.
- Scaled to **500+ users across multiple colleges**, operating simultaneously during high-traffic event windows.

### Full Stack Developer Intern – PCE Internship Portal

Pillai College of Engineering - On Campus • Full-time

Mumbai, India

Technologies: Flask • Tailwind CSS • Jinja • MySQL • SQLAlchemy • JavaScript

- Developed and deployed the official internship management portal adopted by Computer Engineering and Information Technology Department of Pillai College of Engineering for managing internships, objectives, weekly reports, evaluations, and faculty workflows.
- Scaled the platform to support **300+ students from the Computer Engineering and Information Technology departments**.
- Built and optimized backend workflows and database models to ensure data integrity, reliability, and long-term institutional use.

## Education

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### Bachelor of Technology: Computer Engineering

Pillai College of Engineering | Affiliated – University of Mumbai

- CGPA up to 5<sup>th</sup> Semester: 9.0 out of 10

### Class 12<sup>th</sup>: Science | AISSCE

S.D.J Modern School, Surat, India

- Completed AISSCE examination with distinction. Percentage ~ 93.60%

### Class 10<sup>th</sup>: Science | CISCE

R.B.K School, Mumbai, India

- Completed ICSE examination with distinction.
- Percentage ~ 94.50%

## Projects

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### **Alegria MIS Web Application** (<https://mis.alegria.co.in/download>)

**Technologies:** Next.js, PostgreSQL, Prisma, Google APIs, App Script, REST APIs, LLMs, RAG

- Built REST APIs and database models to handle high-volume transactions with **zero receipt duplication** under peak concurrency, with the system **officially adopted by the Pillai Group of Institutions**.
- Integrated frontend dashboards (Next.js) with backend services (PostgreSQL + Prisma) to support **500+ concurrent users** across multiple colleges.
- Implemented real-time analytics and reporting dashboards for organizers to monitor operations during live events.
- Designed and implemented a **secure RAG-based intelligent assistant** that leverages database schema-aware prompting to convert user queries into SQL, **enabling natural language access to operational data** (e.g., receipt statistics) while enforcing strict data privacy by preventing raw data exposure to external LLM APIs.

### **PCE Internship Portal** (<https://internship.pce.ac.in/login>)

**Technologies:** Flask, MySQL, SQL Alchemy, Tailwind CSS, Jinja, JavaScript

- Designed and developed a full-stack internship management system **adopted by the Computer Engineering and IT departments of Pillai College of Engineering**.
- Built backend APIs and database models to manage internship records, objectives, weekly reports, evaluations, and faculty approvals.
- Connected frontend dashboards with backend workflows to support students and faculty through role-based access.

### **PCE Students' Council Portal & Management System** (<https://studentcouncil.pce.ac.in>)

**Technologies:** Next.js / React, Flask, PostgreSQL / MySQL, REST APIs, JavaScript, SEO

- Designed and developed a **full-stack administrative portal for the PCE Students' Council used by council members and HODs** for oversight and governance.
- Implemented modules to **track attendance, manage reports, and monitor council activities** through role-based dashboards.
- Built a **digital archival system** to securely store and retrieve **5+ years of historical council reports and records**.
- Developed backend APIs and database schemas to ensure data consistency, long-term storage, and reliable access.

### **Trupti Tours – Freelance Project** (<https://www.truptitours.com>)

**Technologies:** Next.js, React, CMS, REST APIs, Firebase Firestore, JavaScript, SEO

- Designed and developed a production-ready full-stack travel website using Next.js with an integrated content management system (CMS).
- Implemented dynamic pages for tour packages, destinations, and content updates, enabling non-technical users to manage site content independently.
- Focused on performance, SEO-friendly rendering, and responsive UI for customer-facing pages.

## Certifications

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- CS50AI Introduction to Artificial Intelligence with Python - Harvard University, USA
- Analyze Images with Cloud Vision API – Google Cloud
- Develop GenAI Apps with Gemini and Streamlit – Google Cloud
- Get Started with Dataplex – Google Cloud
- Python Programming Language (Basic) – HackerRank
- Structured Query Language (Basic) – HackerRank

## Languages

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English (Full professional proficiency) • Hindi (Native or bilingual proficiency) • Marathi (Intermediate)

Assamese (Conversational) • Bengali (Conversational)