Arnav Panigrahi

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Professional Summary

Software Engineer with a Master's in Computer Science and 2+ years of experience building scalable, AI-powered full-stack applications. Proficient across a diverse tech stack including Python (FastAPI), JavaScript (React, Node.js). Experienced in the software development lifecycle and deploying cloud-native backends on GCP.

Experience

AllCheer (Fateh and Sudha Inc), San Francisco, CA

Software Developer (Full-time)   *Mar 2025 – Present*

- Engineered a fully automated Release of Information (ROI) system using a **LangChain AI agent** to orchestrate document generation, e-signature collection, and secure data sharing, saving **$20K/year** and **reducing processing time by 60%**.
- Deployed a HIPAA compliant production-grade **FastAPI backend** to ingest real-time data from Rethink BH, building out an observability stack on **Google Cloud Run** that **cut costs by 90%** and eliminated 24-48h latency.
- Developed an internal dashboard integrating a GPT-based NLP API for **named-entity recognition (NER)** and text summarization to structure unformatted therapist notes, improving **data accuracy to 92%**.

AllCheer (Fateh and Sudha Inc), San Francisco, CA

Software Developer Intern   *Jun 2024 – Dec 2024*

- Built a distance matrix generation system to schedule trips for the staff using **Google Route / Distance Matrix API**.
- Prototype the ROI automation using (**Make.com**) and validate workflows with legal/operations teams.

Pinnacle Consulting LLC (PCON Utilities Pvt Ltd), Bhubaneswar, India

Junior Software Developer   *Jan 2022 – Aug 2023*

- Integrated **ArcGIS** mapping with REST APIs and SQL Server for a $75M utility provider in North Carolina to visualize infrastructure and sync real-time updates from **mobile field apps**, reducing oversight errors by **30%**.
- Delivered **3 ERP systems** using **Angular** and **Node.js** for internal teams to manage **timesheets**, **communication**, and **KPI reporting**; implemented **JWT authentication**, automated invoicing, and messaging, improving operational efficiency by **25%**.

Technical Skills

- **Programming Languages:** Python, JavaScript, TypeScript
- **Frontend:** React, Angular, Next.JS, Tailwind CSS, HTML/CSS
- **Backend:** FastAPI, Node.js, Flask, RESTful APIs
- **Databases:** PostgreSQL, MongoDB, Redis, Pinecone, SQL
- **Cloud & DevOps:** AWS, GCP, Docker, Kubernetes, Google Cloud Run

Projects

- **bedtime.ai – Multi-Modal AI Storytelling Platform**
  An AI system that turns children's drawings into bedtime stories narrated in parents' voices using a fine-tuned **phi-3 LLM**, **EfficientNet**, and **coqui-ai**.
- **Agentic Job Tracker & Helper**
  A stateful AI agent using **LangGraph** and **GPT-4o** to automate job applications, with **NLP-driven resume tailoring** and chat-based tracking via **FastAPI + Supabase**.
- **RAG for Document Intelligence**
  Semantic search over PDFs with **Pinecone** and **Groq**, achieving **35% higher relevance** and sub-second responses.

Education

University of California, Riverside

Master of Science in Computer Science   *2023 - 2025*

GPA: 3.61