Apoorva Parajuli

Full Stack Software Engineer

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I am an experienced full stack software engineer with a strong foundation in computer science and full stack engineering, including optimizing user readability, experience, accessibility and AI integration. I am passionate about leveraging AI-enabled technologies and exploring opportunities in modern application development, including machine learning and prompt engineering, to drive innovative solutions.

Education

AI & Machine Learning Certification - Caltech CTME, September 2025
B.S in Computer Science - University of San Francisco, August 2023

Skills

Languages: C, C++, C#, Java, Python, JavaScript, TypeScript, Swift. SQL
Frameworks and Libraries: Django, Flask, React.js, Next.js, Node.js, Express.js, PHP, LangChain, LangGraph, LangSmith, Pinecone, Tailwind CSS, Bootstrap, SwiftUI
Database: PostgreSQL, SQL Server
Other: Unreal Engine, Perforce, git, AWS, Heroku, Vercel, Sentry, nginx, gunicorn, Auth0, HTML, CSS, SCSS, Visual Studio, Salesforce Integration

Work Experience

Freelance Application Engineer | NCRHUB | August 2023 – Present
NCRHUB is a web platform created to connect the community with varying resources by searching and filtering data on an internal database. This web platform provides a cost-effective and cross-platform application service for clients looking for a resource database as well as case management services.
My work includes:
- Designing and developing a case tracking system for the AAPI Coalition whose fiscal sponsor is Able Community Development Foundation, June 2024 - May 2025, California
   o designed tracking system to keep track of training and support provided by the AAPI Coalition
   o explored possibility of integrating Salesforce Authentication with the tracking system, using Salesforce REST endpoints to acquire and authenticate access and refresh tokens
- Outreach and Community Case Tracking and AI-powered Community Resource Tracking System, November 2024 – present.
   The work includes:
   o Integrated third party Map and Geocoding API's such as Leaflet and OpenStreetMap to provide a map interface for users looking for resources, as well as a real-time filter and search feature
   o Used LangChain/LangGraph for LLM/Embedding Model orchestration to allow users to query the resource database via a RAG-powered chat bot, and used LangSmith for debugging and tracing
   o Leveraged many different security strategies, such as COOP, CSP, and HSTS to improve application resilience to XSS attacks. As well as rate-limiting API requests and HTML sanitization when rendering
   o Took advantage of SEO optimization tools such as Next.js' Metadata feature which programmatically generates meta tags for pages, including open graph tags, twitter tags, page titles, etc. As well as robots.txt and sitemaps. Also used Google Search Console and Vercel for analytics and Lighthouse for web optimization
   o Used devtools such as the axe devtools extension to improve site accessibility as per WCAG and ADA standards
   o Used authentication flows such OIDC for client app authentication and regular JWT authentication for user authentication
   o Leveraged Next.js' and Django's built-in tools to support caching, memoization, data serialization and more.
Tools Used: Python, Next.js, Groq, LangChain, LangGraph, Pinecone, Sentry, Heroku, Vercel, Auth.js, Django Rest Framework, PostgreSQL

Full Stack Engineer | Polypinion | April 2024 - October 2024
- Developed an AI-enabled fact checker that facilitated the process of reading through news articles and parsing truth from fiction using OpenAI's LLM and Anthropic's ClaudeAPI LLM
- Developed a dashboard that utilized Google's Analytics API and displayed metrics that allowed admins to view consumer insights including the usage rate of the site and determine the most popular articles, etc. using Chart.js
- Deployed application and resolved various deployment issues caused by web server and application server configuration
- Leveraged SEO optimization tools such as schema.org, google lighthouse, search console, as well as react-helmet to designate unique meta tags for each individual page in the form of a helmet component

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Tools Used: Flask, React, SQLAlchemy, OpenAI API, Anthropic ClaudeAPI, AWS, Vercel, Alembic, SwiftUI