Solvin Shrestha

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TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, R
Frameworks: React, Node.js, Flask, JUnit, FastAPI
Developer Tools: Git, Google Cloud Platform, VS Code, PyCharm, IntelliJ, Eclipse

EDUCATION

University of California, Irvine   Irvine, CA
Bachelor of Science in Software Engineering, Minor in Health Informatics   *Aug. 2021 – June 2025*
- **Relevant Courses:** Data Structures, Algorithms, Intro to AI, Computer Networks, Data Management, Operating Systems, Information Retrieval, Discrete Math

EXPERIENCE

Information Technology Intern   Sep. 2024 – Present
Edwards Lifesciences   *Irvine, CA*
- Developed three AI-powered chat systems using Copilot Studio, integrated with OneDrive, ServiceNow API, and SharePoint, to enhance knowledge management and collaboration
- Integrated ServiceNow API into a chat-based Copilot Agent to provide seamless access to knowledge base articles, streamlining user support and troubleshooting
- Promoted generative AI adoption by creating user personas, a prompt library, and a guide to boost productivity

PROJECTS

Web Crawler and Search Engine | *Python, HTML/CSS, Javascript*   Mar. 2024 – June 2024
- Developed a web crawler to retrieve web pages from UCI ICS domains with Sim Hash
- Constructed a inverted index to store the tokens based on the calculation of its TF-IDF score
- Improved the search engine to handle tens of thousands of web pages with a query response time under 300ms

AI Rate My Professor Assistant | *Next.js, React, OpenAI, Pinecone*   July 2024 – Aug. 2024
- Built a recommendation assistant for professor reviews using Next.js, OpenAI, and Pinecone, integrating sentiment analysis and trend tracking for insights on ratings.
- Implemented web scraping for automated data ingestion from professor review pages, storing structured data in Pinecone for real-time querying.
- Designed an advanced search system with personalized recommendations based on user criteria, enhancing the platform's usability.
- Integrated sentiment analysis to provide historical trends and actionable insights into professor ratings over time.

AI Customer Support Chatbot | *Next.js, React, OpenAI, Vercel, Streaming, Pinecone*   Aug 2024 – Sept 2024
- Built a recommendation assistant for professor reviews using Next.js, OpenAI, and Pinecone, integrating sentiment analysis and trend tracking for insights on ratings.
- Implemented web scraping for automated data ingestion from professor review pages, storing structured data in Pinecone for real-time querying.
- Designed an advanced search system with personalized recommendations based on user criteria, enhancing the platform's usability.
- Integrated sentiment analysis to provide historical trends and actionable insights into professor ratings over time.

Pantry Tracker | *Next.js, MaterialUI, Firebase, OpenAI*   June 2024
- Built a pantry management app using Next.js, Material UI, Firebase, and OpenAI, integrating a CI/CD pipeline for seamless deployment on Vercel.
- Implemented features for adding, deleting, updating, and searching pantry items with a user-friendly interface.
- Enhanced functionality with an AI-driven recipe suggestion system based on pantry contents, leveraging OpenAI API.
- Experimented with image classification using GCP Vertex AI and AutoML to update Firebase with classified pantry items.