

Sankalp Patil

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EDUCATION

Oregon State University <i>Masters of Science in Computer Science</i>	Corvallis, OR Sept. 2024 - June 2026
Oregon State University <i>Honors Bachelors of Science in Computer Science</i> GPA: 4.00 Dean's List: Fall 2021 - Present	Corvallis, OR Sept. 2021 - June 2025

EXPERIENCE

Dell <i>Incoming Data Engineering Intern</i>	June 2024 - September 2024 Round Rock, TX
Oregon State University <i>Student Software Developer</i> <ul style="list-style-type: none">Architected an ETL pipeline using Tableau Prep to extract data from an Amazon Redshift source with 750,000+ records. Developed an analytics tool to optimize course scheduling decisions for university admin.Led a cross-functional team of 10 Student Software Developers, Staff Software Architects, and Business Analysts employing Agile, DevOps, and Git to streamline the development of a University Course Forecasting Tool.Spearheaded the development of an Oregon city website by creating feedback-driven user interfaces in Figma and implementing them using React, Javascript, ASP.NET, C#, and MySQL.	May 2023 - Present Corvallis, OR
Oregon State University <i>Engineering Teaching Assistant</i> <ul style="list-style-type: none">Enhanced over 100 engineering students' understanding of object-oriented programming and algorithms in C++ by leading insightful weekly lectures, resulting in the highest recitation scores among recitation sections.	March 2023 - June 2023 Corvallis, OR

PROJECTS

Syllabot <i>React, MongoDB, Pinecone, Langchain, OpenAI API, Tailwind CSS, Git</i> <ul style="list-style-type: none">Built an award-winning academic assistant chatbot using Retrieval Augmented Generation (RAG) to train off course files, providing detailed insights and academic assistance to OSU Students.Parsed pdfs using LangChain, vectorized them using the OpenAI API, and stored document embeddings in the cloud using Pinecone vector database, enabling seamless retrieval of information.Designed and implemented a course document dashboard, enabling users to manage their course files efficiently.
QueryCorner <i>NextJS, React, OpenAI API, Convex, Typescript, Tailwind CSS, Git</i> <ul style="list-style-type: none">Developed a full-stack website using React and Typescript to efficiently search for generative AI prompts.Implemented vector search using the OpenAI API and vector database, enabling robust semantic search.Designed a robust database schema with optimized indexing, ensuring efficient queries and data retrieval.
iSpyAI <i>AWS, React, Python, OpenAI API, React, ChakraUI, C#, Docker, Git</i> <ul style="list-style-type: none">Built an award-winning full-stack web application that summarizes YouTube videos utilizing the OpenAI API.Architected an AWS backend, using batch jobs to generate blogs and Redis and S3 for data storage.Implemented a REST API using Python Flask Server to integrate YouTube's Data API with OpenAI.

TECHNICAL SKILLS

Languages: Java, C/C++, Swift, Objective C, Python, Javascript, Golang, HTML, CSS
Technologies: React, SwiftUI, Flask, HDFS, NodeJS, MongoDB, MySQL, Spring Boot, Hadoop, Spark, Kafka
Developer Tools: Git, Github, Figma, Microsoft Office, Tableau, Microsoft Power BI, RStudio, Docker, Google Cloud
Libraries: NumPy, pandas, Matplotlib, seaborn, OpenCV, Scikit-Learn