

Manav Bhasin

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EDUCATION

Purdue University – West Lafayette, IN

Major: B.S Computer Engineering (GPA: 3.3)

Expected Graduation 12/2022

Major: M.S Computer Engineering

Expected Graduation 12/2024

WORK EXPERIENCE

Interos Inc.

Software Engineering Intern, Backend & API

Jun 2022 - Aug 2022

- Developed a Python library for Interos' scorekeeping team that incorporated shared data science transformations, database services, and Datadog logging. The library was used across various scorekeeping Databricks notebooks to increase code reusability and improve overall maintainability of the system.
- Built a continuous integration pipeline using Gitlab that automatically runs unit tests for the scorekeeping library and deploys the code to AWS code artifact so it can be installed and used in a Databricks cloud environment
- Wrote automated unit tests for various scorekeeping modules

Kloze AI (formerly Contiq)

Full Stack Software Engineering Intern

May 2021 - Aug 2021

- Developed a web app using Python, Flask, and AWS services to transcribe meetings between Contiq's users and their clients.
- Applied natural language processing techniques such as topic modeling and question extraction to provide valuable insights to users of the transcription app
- Designed and implemented a front-end dashboard in Angular for sales and marketing executives to track the progress of deals for their respective team members

Purdue University Undergraduate TA - Introduction to Data Mining

Aug 2022- Present

- Led weekly office hours to assist undergraduate and graduate students in core data mining topics such as dimensionality reduction, association rule mining, clustering and more.

PROJECTS AND RESEARCH

Purdue E-Health

Software Engineer

Aug 2022 - Present

- Designed and developed a website using Angular and TypeScript that allows nurses and administrators at the local hospital to help schedule and track the status of their home health patients
- Architected REST APIs using Node.js to facilitate communication between the website and database

Smart Informatix Lab

Undergraduate Research Assistant

Jan 2021 – May 2021

- Worked with researchers to develop an image classifier embedded on an edge device to detect any road defects such as potholes in real time.

Movie Recommendation Website

Languages and Technologies: Python, FastAPI, JavaScript, HTML/CSS, AWS Relational Database Services

- Created a movie recommendation system in Python from a dataset with over 14,000 titles using several data mining techniques such as collaborative and content based filtering
- Built out the user interface in JavaScript that prompted users to enter a movie which they enjoyed. A set of recommended movies was then displayed to the user
- Utilized FastAPI to serve as the communication layer between the front-end, back-end and AWS relational database service

ADDITIONAL INFORMATION

Programming Languages: Python, C/C++, SQL, Angular, TypeScript/Javascript, Java, Node.js, HTML/CSS

Frameworks and Technologies: Snowflake, Datadog, AWS, PySpark, Pandas, Sci-kitLearn, Git

Relevant Coursework: Data Structures and Algorithms, Object Oriented Programming, Computer Security, Data Mining, Microprocessor Systems, Data Analytics