

Irfan Firosch

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Education

Purdue University

West Lafayette, IN

B.S Computer Science and Mathematics, **GPA: 4.0**

May 2026

- Relevant Coursework: Data Structures and Algorithms, Computer Architecture, Discrete Mathematics, Multi-variable Calculus, Programming in C

Work Experience

Teaching Assistant

August 2024 - Present

Purdue University - College of Science

West Lafayette, Indiana

- Worked as a teaching assistant for CS180 - Problem Solving and Object-Oriented Programming course
- Assisted 40+ students with core CS concepts, homework, and projects
- Cooperated with fellow UTAs and lab instructors with constructing weekly Java programming challenges

Software Engineer Intern

May 2024 - July 2024

Mindster

Bangalore, India

- Trained an OCR model for text recognition and scanning, and a Naive-Bayes model for text classification, improving data processing efficiency by 41%
- Designed a workflow management tool to assist project planning routines resulting in increased productivity
- Developed a responsive full-stack websites tailored to client requirements using Laravel, Bootstrap, and MySQL

Undergraduate Data Science Researcher

Aug 2023 - May 2024

Inogen

West Lafayette, IN

- Worked with Inogen to analyze historical data for predicting machine failure
- Used R, SQL, and Python to extract actionable insights leading to a 15% increase in data-driven decision-making efficiency
- Trained LSTM and VAR multi-variate models for forecasting, achieving a 92% accuracy rate in predicting data values

Software Engineering Intern

Aug 2022 - Sep 2022

Aufait Technologies

Bangalore, India

- Utilized Figma to enhance the user interface for an apparel website, improving customer retention rate by 9%
- Collaborated with cross-functional teams to ensure the UI met the customer's requirements. Integrated feedback from user testing sessions to enhance the interface design
- Adhered to Agile methodologies, actively participating in sprint planning, daily stand-ups, and development life cycle to ensure efficient project delivery

Projects

Skopa

June 2024

- Created a platform to help D2C companies analyze customer feedback from social media
- Implemented social media scraper using BeautifulSoup, BERT for sentiment analysis, a vector embedding model from HuggingFace and Pinecone for vector search
- Built the app with Next.js and TypeScript with Authentication and Postgres to store user-related information.

PrepMaster

July 2024

- Developed an interactive platform to help computer science students with interview prep with Laravel and MySQL
- Included a LeetCode question bank with advanced search and filters with an analytics page for performance metrics
- Designed an internship application page using the CareerJet API to assist with job searches and applications

EduClip

March 2024

- Built a product to streamline video-based learning using Streamlit and a customized chatbot
- Used cosine similarity for vector search and Python libraries to clip video parts that align with student information
- Integrated Whisper API for transcript generation and Streamlit for the frontend

Skills

Languages/Frameworks: Java, R, Python, SQL, HTML, CSS, JavaScript, PHP, React, Next.js, Laravel, Prisma ORM
Dev Tools: Git, Unix Shell, Jupyter Notebook, LaTeX, C, Tailwind CSS