

JAISAL MEHTA

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EDUCATION

Indiana University – Bloomington

May 2025

Bachelor of Science in Computer Science

Minors: Business, Data Science, Systems Engineering

Courses: Object Oriented Programming, Discrete Structures, Data Structures and Algorithms, Systems Programming in Unix, iOS Application Development, Computer Structures, Advanced Algorithms, Introduction to Computer Networks, Introduction to Data Analysis and Mining, Data Representation, Introduction to Statistical Inference, The Computer in Business

PROFESSIONAL EXPERIENCE

Serve IT, Bloomington, IN

August 2023 – December 2023

UX Design Intern

- Collaborated in **Agile** sprints to redesign the Tandem Birthing Center website using **WordPress**, applying **wireframes**, **mockups**, and **prototypes** built in **Figma**, affecting the entire Bloomington, Indiana community
- Conducted **usability testing** and user interviews to improve **information flow** and **user engagement** across devices

Viant Medical, Wheeling, IL

June 2021 – July 2021

Manufacturing Engineering Intern

- Created **validation reports** for medical manufacturing machines, ensuring oil changes met product quality standards towards customer demands and production requirements, while maintaining a clean **Oracle database**
- Utilized **Minitab** to generate **statistical reports**, ensuring product quality through measurement and compliance

CERTIFICATIONS

- AWS Educate Introduction to Generative AI, Amazon Web Services** September 2025
- AWS Educate Machine Learning Foundations, Amazon Web Services** September 2025
- AWS Educate Introduction to Cloud 101, Amazon Web Services** August 2025

TECHNICAL PROJECTS

SubTracker (In-Progress) | MongoDB, Express.js, Angular, Node.js, Plaid API

August 2025 – Current

- Developing a full-stack** app to track and manage recurring subscriptions by integrating bank data using the **Plaid API**
- Implementing **secure backend** with **Node.js**, **responsive dashboard UI** in **Angular**, and real-time updates for spend summaries and renewal dates

Stock Price Prediction with AI/ML | Python, Scikit-learn, TensorFlow, Jupyter Notebooks

June 2025

- Developed** and compared **predictive models (Linear Regression vs. LSTM)** on real time stock data using **Python**, **scikit-learn**, and **TensorFlow**; analyzed accurate short-term forecasts and evaluated performance with **MAE** and **RMSE** metrics
- Applied **deep learning** sequence modeling with **LSTM** networks to capture temporal dependencies in stock price data

Task Manager | React, Spring Boot, MongoDB

April 2025

- Built a full-stack** web app with **JWT-based user authentication** using **Spring Boot**, **React**, and **MongoDB**, enabling users to securely login, register, create, complete, and delete personal tasks with real-time UI updates
- Designed and implemented RESTful APIs** for efficient **data interaction** between frontend and backend layers of web app

Brain Tumor Classification | Python, OpenCV, Scikit-learn

March 2025

- Built and evaluated K-NN classification model** on **3,000+** brain MRI images, achieving **up to 85% accuracy** in detecting tumor types including glioma, meningioma, and pituitary
- Preprocessed and labeled 3,000+ medical images** using **CV2** and **PIL**, reducing image dimensionality

Simple Data Pipeline | Python, MySQL, REST APIs

October 2024

- Developed a Python-based ETL pipeline** to store real-time weather data from a **WeatherAPI** to a **SQL database**, along with **shell** and **crontab** scripts in order to **automate ETL pipeline execution** in 15 minute intervals
- Modularized **data parsing**, **cleaning**, **transformation**, and **SQL** execution for an **unlimited** number of data entries

TECHNICAL SKILLS

Languages & Frameworks: Java, Python, C, SQL, Swift, R, HTML, CSS, JavaScript, Spring Boot, React, Angular, Node.js, Express

Tools & Platforms: GitHub, MongoDB, MySQL Workbench, Jupyter, Postman, IntelliJ, PyCharm, Xcode, Unix CLI

Machine Learning Modeling Techniques: Supervised/Unsupervised learning, Regression, Decision Tree, K-NN, SVM, Time Series

Concepts & Practices: Data Structures and Algorithms, RESTful APIs, Agile Development, Version Control (Git), Cloud concepts