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 with a **multidisciplinary team** to redesign Tandem Birthing Center's website through **WordPress**, contributing to the **UX design** process through **wireframes**, **prototypes**, and **mockups** in **Figma**, following an **Agile workflow**
- Conducted **user research**, including **usability testing**, to inform design decisions and improve experiences for the Bloomington community, while supporting **design systems** to maintain visual consistency and **brand identity**

Viant Medical, Wheeling, IL   **June 2021 – July 2021**
Manufacturing Engineering Intern
- Created **validation reports** for medical manufacturing machines, ensuring oil changes met customer demands and production requirements while maintaining a clean **Oracle database**
- Gauge medical components and **generated statistical reports** in **Minitab** to verify compliance with client specifications

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   **July 2025 – Current**
- **Developing a full-stack web app** for tracking and managing user subscriptions using **Angular, Node.js, Express, and MongoDB**, and integrating with **Plaid API** to securely retrieve bank data and auto-identify subscription transactions
- **Designing a responsive dashboard UI** to display recurring payments, renewal dates, and monthly spend summaries

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 Task Manager** web app using **Spring Boot, React**, and **MongoDB**, enabling users to securely create, complete, and delete personal tasks with real-time UI updates
- **Designed and implemented RESTful APIs, user authentication** using **JWT** for an unlimited number of users, ensuring task data is securely stored, retrieved, and displayed uniquely per user session across frontend and backend layers

Brain Tumor Classification | Python, OpenCV, Scikit-learn   **March 2025**
- **Built and evaluated K-NN classification model** on 3,328 brain MRI images, achieving **up to 85% accuracy** in detecting tumor types including glioma, meningioma, and pituitary
- **Preprocessed and labeled over 3,000+ medical images** using **CV2** and **PIL**, reducing image dimensionality

Simple Data Pipeline | Python, MySQL, REST APIs   **October 2024**
- Designed and implemented a **Python-based ETL pipeline** to **extract, transform, and load (ETL)** real-time weather data from the **WeatherAPI** in a **MySQL database**, utilizing modular functions for **JSON** parsing and **SQL** execution to ensure efficient **data management**
- Enabled user input by constructing **API** URL based on city or zipcode, ensuring **flexibility and user-focused data retrieval**

TECHNICAL SKILLS

Programming Languages/Technologies: Java, Python, R, SQL, Swift, UIKit, C, Spring Boot, HTML, CSS, React, Angular
Platforms: IntelliJ Idea, PyCharm, Xcode, Visual Studio Code, Postman, MongoDB, MySQL Workbench, Jupyter Notebook, Unix