

Asad Mehboob Ali

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EDUCATION

Drexel University | College of Computing & Informatics

CGPA: 3.81 / 4.0 Philadelphia, PA

• B.S. Computer Science | Minor in Mathematics

September 2019 – June 2024

WORK EXPERIENCE

Chubb Limited

Philadelphia, PA

Software Engineering Co-op

April 2023 – September 2023

- Implemented and integrated classification and regression models using Python's Scikit-Learn library, enhancing predictive capabilities within IT audit processes, leading to a 30% reduction in audit discrepancies
- Optimized data processing workflows using R for statistical analysis and SQL for database queries, improving control efficacy by 25% and accelerating the IT audit cycle
- Executed risk assessments by applying multivariate analysis and predictive modeling techniques, identifying key risk areas and implementing robust controls that reduced overall risks by 20%
- Architected an unsupervised anomaly detection system using TensorFlow, significantly enhancing compliance breach detection accuracy by 18% and ensuring system integrity

Day & Zimmermann

Philadelphia, PA

Technological Engineering Associate Co-op

April 2022 – September 2022

- Devised a Python and ABAP-based API integration solution to automate synchronization between ticketing and SAP systems, reducing manual data entry by 40% and significantly improving operational efficiency and data integrity
- Engineered advanced Ruby scripts to automate user query response systems, resulting in a 60% reduction in response times and a 35% increase in customer satisfaction through efficient query handling
- Administered high-level technical support for corporate IT systems, utilizing BetterNet to optimize issue resolution processes and enhance overall system performance
- Revamped enterprise databases using MySQL by implementing advanced indexing and query optimization techniques, improving data retrieval speeds by 16% and ensuring data precision

NetSol Technologies Inc.

Calabasas, CA

Software Engineering Co-op

May 2021 – August 2021

- Collaborated with a team of five developers to design and implement an enhanced user interface using HTML, CSS Tailwind, and Three.js, leading to a significant increase in user experience satisfaction
- Orchestrated the integration of React.js and Next.js to optimize website navigation, enhancing operational efficiency by 12% and improving user interaction by reducing page load times by 15% through advanced server-side rendering and dynamic routing techniques
- Conducted comprehensive data analysis on user engagement metrics using Google Analytics, driving a strategic UI/UX overhaul that resulted in a 5% increase in site accessibility and a 50% rise in user retention
- Pioneered the development and implementation of a Python-driven user feedback system, managing the PostgreSQL database to leverage user insights for continuous website optimization, resulting in a 10% improvement in overall user satisfaction

PROJECTS

Capstone Project: Dynamic Pricing System | [GitHub](#)

September 2023 – June 2024

- Spearheaded the development of a dynamic pricing system using React.js and Node.js, increasing GMV by 20% through strategic pricing
- Constructed a serverless AWS infrastructure with EC2, RDS, and Lambda to enhance scalability and data handling
- Formulated RESTful APIs for real-time pricing updates, ensuring seamless data flow and immediate responsiveness
- Incorporated machine learning algorithms in Python to analyze pricing elasticity and competitor data for adaptive pricing
- Deployed a CI/CD pipeline, enabling efficient and reliable software deployment

Portfolio Website Development | [GitHub](#)

July 2024 – August 2024

- Crafted a responsive, user-centric interface using React.js and TypeScript, ensuring seamless content presentation across devices
- Integrated the GPT API to develop "DoubleA," an AI-powered chatbot for personalized user engagement and interactive dialogue
- Styled a visually appealing layout with Tailwind CSS, maintaining a consistent and professional presentation of projects and skills
- Developed a contact form using Node.js and Email.js, streamlining communication by enabling visitors to send messages easily

TECHNICAL SKILLS

- **Languages:** Java, Python, C/C++, JavaScript, TypeScript, HTML, Tailwind CSS, PostgreSQL, MySQL, Ruby, Tableau
- **Frameworks:** React.js, Next.js, Node.js, Flask, Express.js, Three.js, JUnit, RESTful APIs, MongoDB, Kubernetes, Linux, WebGL, Agile, WordPress, Django, Terminal-UI, Apache Spark, Apache Hadoop
- **Developer Tools:** Git, Docker, Excel, AWS, VS Code, Visual Studio, IntelliJ, PyCharm, Eclipse
- **Libraries:** NumPy, Matplotlib, Pandas, Seaborn, Scikit-learn, PyTorch, TensorFlow

AWARDS & ACHIEVEMENTS

- **Drexel Founder's Scholarship** – Merit scholarship to study at Drexel University September 2019 – June 2024
- **President's List** – Drexel University, College of Computing and Informatics Fall 2023 – Spring 2024
- **Dean's List** – Drexel University, College of Computing and Informatics Fall 2022 – Winter 2023