Jahanzaib Malik

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EDUCATION

California State University, Northridge **2023**
Master of Science in Computer Science | 3.8 GPA *Northridge, CA*
University of Kashmir **2020**
Bachelor of Technology in Computer Science and Engineering *India*

ACHIEVEMENTS

1st Place, 2024 Health AI BIAS Datathon [datathon.org] **August 2024**
Winner of the Health AI BIAS Datathon at Emory University. Conducted analysis of the CXR-Chest dataset, leveraging techniques including Convolutional Neural Networks (CNNs), autoencoders, vector embeddings, and Social Determinants of Health (SDOH)-based subgroup analysis. Successfully identified bias in diagnostic predictions, showcasing innovative solutions for enhancing fairness and accuracy in healthcare AI.

SKILLS

Programming Languages: Python, JavaScript, Java, C++, SQL, HTML5, CSS3
Frameworks/Libraries: React.js, Node.js, Express.js, PyTorch, Keras, Scikit-learn
Development Tools: Git, GitHub, Docker, Kubernetes, AWS (Lambda, EKS, CloudWatch), RESTful APIs, CI/CD Pipelines
Miscellaneous: Machine Learning, Deep Learning, Frontend Development, Data Analysis, Agile Development, Scrum, Jira

WORK EXPERIENCE

iQuasar LLC **October 2023 – Present**
Software Engineer *Sterling, VA (Remote)*

- Designed and implemented a React.js front-end application with dynamic components for proposal outline generation and real-time template customization, reducing development time by 30% and improving accessibility across devices.
- Automated back-end workflows using AWS Lambda and Python, streamlining solicitation data extraction, filtering, and transformation with Pandas and BeautifulSoup, saving over 20 hours per proposal cycle.
- Built a modular framework for document generation, enabling template standardization, version control, and compliance tracking. Improved accuracy and ensured 100% alignment with RFP criteria, increasing compliance rates by 25%.

One Community Inc. **Sep 2023 – Nov 2023**
Software Engineer *San Gabriel, CA (Remote)*

- Led MERN stack code reviews and QA for the Highest Good Network application, ensuring feature integrity across front-end, back-end, and database. Reviewed over 150+ pull requests, enhancing code quality and application performance by 30%.
- Contributed to front-end development with a focus on UI/UX enhancements using React.js. Streamlined UI consistency resulting in a 30% improvement in navigation efficiency and a 25% increase in user task completion rate.

City and County of San Francisco **May 2022 – Dec 2022**
Software Engineer Intern *San Francisco, CA*

- Led the chatbot framework assessment for MyApps System, developed a proof of concept using Microsoft Bot Framework Composer, reducing ticket volume by 30%. Utilized Bot Framework Web Chat and Inspector for testing and debugging.
- Integrated QnA Maker to manage FAQs, enhancing interactions in Microsoft Teams and Web Chat channels. Applied user behavior analysis and predictive modeling to optimize chatbot performance, identifying user interaction trends and addressing common queries.
- Mitigated security incidents by 20% with FIDO MFA - YubiKey testing, improving authentication for 30k+ government employees.

BMCP Solutions **Dec 2019 – Feb 2020**
Web Development Intern *New Delhi, India*

- Led a website overhaul using the MERN stack, achieving a 30% faster load time and enhanced mobile responsiveness.
- Conducted data analytics to identify performance bottlenecks, ensuring seamless user interactions and a 95% client satisfaction rate.

PROJECTS

Monitoring and Analysing Cyber Security Attacks in Microservice Applications using AWS [ScholarWorks] **May 2023**
Masters Thesis

- Designed and implemented an AWS-based system (EKS, CloudWatch) for monitoring cybersecurity attacks in microservices using Deep Learning models (LSTM, Autoencoder). Achieved 90% detection accuracy with precision and recall scores above 80%.

Type2Heart (T2H) [GitHub] **Nov 2021**

- Developed and validated a Machine Learning model using Random Survival Forests to accurately predict heart failure risk in T2DM patients. Achieved metrics of 90% accuracy and 88% specificity, highlighting effectiveness in clinical settings..