Jahanzaib Malik

jahanzaibmalikwork@gmail.com ❖ +1 (310) 880-4716 ❖ Atlanta, GA ❖ jahanzaibmalik.com ❖ LinkedIn ❖ GitHub

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*

SKILLS

Programming Languages: Python, JavaScript, Java, C++, PostgreSQL, HTML5, CSS3
Frameworks/Libraries: React.js, FastAPI, Node.js, Express.js, JWT, Tailwind, Pandas, PyTorch, Keras, Scikit-learn
Development Tools: Git, GitHub, Docker, Kubernetes, AWS , RESTful APIs, CI/CD Pipelines
Miscellaneous: Backend Development, Frontend Development, Machine Learning, Deep Learning, Data Analysis, Agile Development, Scrum, Jira

WORK EXPERIENCE

Emory University   **Sep 2025 – Present**
Systems Software Engineer   *Atlanta, GA*

- Develop and maintain scalable, secure data pipelines for extracting, de-identifying, and curating radiology imaging datasets (e.g., EMBED, EmoryCXR) to support large-scale AI research.
- Engineer software systems that integrate imaging data with clinical metadata, enabling downstream training and evaluation of medical AI models.
- Contribute to research workflows leveraging machine learning and large language models (LLMs) for automated dataset labeling, clinical report analysis, and model evaluation.
- Support validation of FDA-cleared and clinically deployed AI models, assessing performance, reliability, and safety in real-world clinical environments.
- Collaborate with interdisciplinary teams of radiologists, data scientists, and engineers to advance Emory's mission in healthcare AI innovation and deployment.
- Apply best practices in software engineering, data security, and compliance (HIPAA/IRB) to ensure robust, ethical handling of sensitive medical data.

iQuasar LLC   **Oct 2023 – Sep 2025**
Sr. Technical Associate (Software Development)   *Sterling, VA (Remote)*

- Led development of Proposal Pro, an AI-powered React and FastAPI platform that automated proposal summary and outline generation, reducing manual drafting time by over 60% and accelerating response turnaround.
- Engineered secure JWT-based authentication, dynamic project dashboards, and file workflows supporting 1000+ document operations (upload, tagging, versioning) with encrypted GCS storage.
- Integrated Gemini Flash/Thinking models for real-time AI content generation, enabling users to dynamically tailor outputs, improving drafting accuracy and user satisfaction by 40%.
- Directed architectural design, delivering a scalable MVP in 5 sprints (15 weeks) and initiating modularization for long-term maintainability; scoped 3+ future modules (Compliance Matrix, Response Gen, Content Gen).
- Served as Technical SME for 15+ software development proposals, translating architecture into technical narratives, contributing to a 30% increase in RFP win rate during high-SLA cycles.

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.

ACHIEVEMENTS

1st Place, 2024 Health AI BIAS Datathon [datathon.org]   **Aug 2024**
Analyzed CXR-Chest dataset using CNNs, autoencoders, and SDOH subgroup analysis to uncover AI diagnostic bias.