

SHAMS KHAN

Software Developer

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🌐 [Linkedin](#)

Dynamic and innovative AI and Machine Learning Expert with over 3 years of experience in developing cutting-edge software solutions. Proficient in a range of programming languages, including Python, Java, and C, with a deep focus on AI-driven applications. Demonstrated expertise in deploying scalable, efficient systems using Django, and Android studio, and adept in leveraging cloud technologies like AWS. Known for advancing predictive health analytics and championing STEM education. Seeking to apply a blend of technical prowess and creative problem-solving to drive impactful AI innovations

Experience

Research Associate, Thompson Rivers University

MAY, 2022 - JAN, 2024

- Developed a novel stroke risk prediction model using LangChain and Llama2, significantly enhancing medical data analysis.
- Implemented Django for robust web application development, ensuring wide accessibility and user interaction.
- Achieved groundbreaking accuracy in stroke prediction, marking a major advancement in medical AI applications.
- Focused on early detection and improved management strategies in healthcare through innovative AI technology.
- Laid groundwork to expand the project on other disease models by creating API services
- Work on publishing research findings in 'THE CANADIAN MEDICAL AND BIOLOGICAL ENGINEERING SOCIETY'.

JAN, 2023 - JUN, 2023

Robotics / Tech Instructor (Co-op), canCODE (Government of Canada)

- Implemented a STEM curriculum for school children, leading to an 80% increase in students' interest in technology subjects.
- Organized and conducted hands-on workshops on robotics and coding, enhancing students' problem-solving skills and technological literacy.
- Develop and deliver engaging lessons on robotics and technology to students, fostering their interest and understanding in the field.
- For a Detailed overview of my involvement visit [CanCode](#)

Software Developer, Thompson Rivers University

MAY, 2022 - SEP, 2022

- Spearheaded the "Accreditation Tool," a Django-based application for automating data entry, and streamlining administrative tasks in the Software Engineering department by 30%.
- Managed the project using Agile methodologies, from initial development to deployment on Linux servers, ensuring system reliability and scalability.
- Implemented the latest front-end and web3 technologies such as JQuery, and Bootstrap.
- Performed User Acceptance Testing (UAT) to fine-tune the application, achieving over 90% user satisfaction.
- Created comprehensive documentation and conducted training sessions for faculty and staff, facilitating smooth adoption and efficient use of the tool.

Education

● Bachelors of Computing Science

2021 - 2024

- Thompson Rivers University, Kamloops, BC , Canada
- Deans listed Multiple Semesters

● Bachelors of Technology (Computer Engineering)

2019 - 2020

- Manipal Academy of higher education , Dubai , UAE
- Received Annual University award for excellence.

VOLUNTEERING

President, Computer Science Club, Thompson Rivers University

SEP, 2022 - SEP, 2023

- Orchestrated multiple tech events, including hackathons and GitHub workshops, leading to a 40% increase in club membership.
- Established partnerships with tech companies for sponsorships and guest lectures, enhancing the educational experience.
- Developed strong relationships with technology companies in the area to create internship and job opportunities for club members

Co-founder & President, Chess Club, Thompson Rivers University

SEP, 2023

- Launched the Chess Club from scratch, organizing tournaments and regular practice sessions, attracting over 100 regular participants.
- Fostered a community of chess enthusiasts, contributing to the cultural and intellectual diversity of the university.

Developer/ Volunteer Instructor, Mengutech

JAN, 2023 - PRESENT

- Designed an educational program for Uyghur children, increasing their coding and robotics skills.
- Developed the organization's website using python stack, boosting its online presence and facilitating remote learning opportunities.
- Accessible at [Mengutech](#)

Full Stack Web Developer , Kamloops Islamic Association

MAY, 2023 - PRESENT

- Developed a comprehensive web platform for the community, enhancing online engagement and resource accessibility.
- Managed and trained a team of junior developers, fostering their growth and ensuring timely project completion.

RESEARCH PUBLICATIONS

An Automated Online Recommender System for Stroke Risk Assessment

- PUBLICATION DATE: MAY 2023, JOURNAL: THE CANADIAN MEDICAL AND BIOLOGICAL ENGINEERING SOCIETY, VOLUME 45

GP. 5 Identifying Clinically Relevant Prognostic Epigenetic Subtypes of Chordoma and Their Non-Invasive Detection in Plasma

- PUBLICATION DATE: JUNE 2022, JOURNAL: CANADIAN JOURNAL OF NEUROLOGICAL SCIENCES, VOLUME 49, ISSUE S1

Technical Skills

- **Valid CLASS 5 Driver License**
- **Programming Languages**-JAVA, C, C++, C#, Python, R, Dart, Kotlin, bhailang, Assembly language.
- **App Development**- Android Studio, Flutter, MySQL, Firebase, Testing and Troubleshooting.
- **Web Development** - HTML, XML, CSS3, JavaScript, WordPress, SQL, PostgreSQL, Django Framework, JQuery.
- **Mathematics**- Advanced Calculus, Real Analysis, Linear Algebra, Graph Theory, Discrete Math, Probability, Statistics.
- **Software Development Technologies**- Agile Development, Scrum Methodology, Server Management.
- **Computer Hardware** - Hardware Assembly, Analysis and Testing, Network Configuration (WAN/LAN), Technical Support and Troubleshooting.
- **AI and LLM Technologies** - Familiarity with Large Language Models (LLMs), LLAMAiNDEX, Langchain.
- **AI and Machine Learning** - Deep Learning (CNNs, RNNs), Natural Language Processing (NLP), Computer Vision, Reinforcement Learning, Tensorflow, PyTorch, Scikit-learn, Keras.
- **Big Data Technologies** - Hadoop, Spark, Apache Kafka.
- **Cloud Computing** - AWS, Azure, Google Cloud Platform
- **Model Deployment and Scaling** - Docker, Kubernetes, Heroku, Microservices Architecture.