Abdul Rafay Khurram

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Relevant Experience

Software Developer   **Vancouver, BC, Canada**
UBC Emerging Media Lab   *Sept. 2024 – Present*
- Leading a team in the development of a VR application using Unreal Engine to enhance nursing education, focusing on interactive clinical simulations and AI technologies.
- Reduced backend infrastructure costs by 90% through optimization of the AI system on the DXL server.
- Developing a secondary AI layer to monitor and re-prompt AI responses, aiming to improve system robustness, increase scalability, and reduce development time.
- Driving prompt engineering efforts to enhance the reliability and efficiency of AI-based outputs.

Software Engineer   **Maryland, USA**
Faaz Consulting   *May – Sept. 2023*
- Led the development of client applications in Java and Python, improving UI responsiveness by 30%.
- Enhanced legacy systems with new UI features using Vue.js and JavaScript, increasing user engagement by 15%.
- Automated DevOps processes with Jenkins and Docker, reducing deployment times by 20%.
- Delivered software enhancements for enterprise clients, adhering to strict deadlines and project specifications.

Relevant Technical Projects

Constructify   **Personal Project**
May 2024 – Present
- Built an A-Z home-building platform with transparent project tracking and a service provider marketplace, targeting aspiring homeowners and construction firms.
- Developed a responsive frontend using Vue.js and Vite, optimizing load times and performance, with plans to use Django for the backend to handle scalable data management.
- Designed an intuitive UI/UX through targeted user research and iterative testing, leading to a 25% reduction in user onboarding time.

Real Estate Management Platform   **Academic Project**
July – August 2023
- Developed a platform for seamless real estate transactions and property management, integrating service providers like inspectors and contractors.
- Designed and implemented a SQL database with OracleDB to model classes, utilizing ISA relationships for efficient querying and data manipulation.
- Created and managed API endpoints with Express.js, ensuring asynchronous processing to handle multi-user requests and streamline property listing management.

Amazon Marketplace Analytic Software   **Academic/Personal Project**
Sept. – Dec. 2022
- Engineered an Amazon Marketplace tool, enhancing seller operational efficiency by 35%.
- Implemented an algorithm predicting ASIN trends, leading to a 50% reduction in overstock.
- Enabled multi-format data integration, including SQL and JSON, improving data retrieval times by 40%.

High-Performance Media Distribution Platform   **Personal Project**
Jan. – April 2021
- Orchestrated Ombi-integrated media server, automating over 1,000 weekly metadata-rich downloads using scripting.
- Administered NGINX server streaming a 50 TB digital Blu-ray archive to 150+ users, ensuring optimal system reliability.
- Enhanced system resilience and reduced downtime by 90% with SSH-powered Raspberry Pi commands.

Skills

Languages: Java, Python, JavaScript, TypeScript, C/C++, SQL, HTML/CSS | **Frameworks:** React.js, Vue.js, Express.js, Django
Tools: Git, OracleDB, MySQL, JUnit, RDBMS, Node.js, Redux | **Testing:** Unit, Integration, End-to-End, Smoke, A/B

Education

The University of British Columbia *(BSc in Computer Science - Expected Graduation: 2026)*   **Vancouver, BC**

UBC Science Co-op

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