

# Abdul Rafay Khurram

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## EDUCATION

### The University of British Columbia

Vancouver, BC, Canada

*Bachelor of Science in Computer Science (Expected Graduation: 2026)*

## HONORS AND AWARDS

### Euclid Mathematics Contest, University of Waterloo

2021

*Top 5% Internationally, Certificate of Distinction*

## EXPERIENCE

### Software Engineer

Jan. 2025 – Present

*Otto Optical Systems*

*Toronto, ON, Canada*

- Developing a generative AI-powered social media content generation platform using Next.js and Express.js.
- Engineered a robust API integration layer, resolving critical authentication failures in Facebook and Instagram connections, ensuring 99.9% uptime for automated content scheduling.
- Redesigned user onboarding and signup flows, cutting drop-off rates by 30% through UX optimizations and A/B testing.
- Built an AI-powered summarization pipeline to optimize prompt efficiency, reducing token usage by 40% and leveraging AWS DynamoDB and S3 for scalable storage and retrieval.

### Software Developer & Team Lead

Sept. 2024 – Dec. 2024

*UBC Emerging Media Lab*

*Vancouver, BC, Canada*

- Led development of an AI-powered VR platform simulating clinical scenarios for the UBC School of Nursing.
- Built a secondary AI layer for monitoring patient responses, improving system stability.
- Delivered a functional prototype in two weeks, securing project funding.
- Cut backend costs by 90% through system optimizations, enhancing performance by 40%.

### Software Engineer

May 2023 – Sept. 2023

*Faaz Consulting*

*Maryland, USA*

- Improved UI responsiveness by 30% and added new features using Vue.js and JavaScript.
- Automated deployment processes with Jenkins and Docker, reducing deployment times by 20%.
- Enhanced legacy systems and delivered software updates under strict deadlines.

## PROJECTS

### Constructify | *Vue.js, Vite, MySQL*

May 2024 – Present

- Built a home-building platform featuring project tracking and a marketplace for service providers.
- Developed a responsive frontend, optimizing load times and user performance.
- Streamlined user onboarding by 25% through targeted UI/UX enhancements.

### InsightUBC - Dataset Manager | *React.js, Node.js, REST API*

Sept. – Dec. 2024

- Developed a full-stack web application for managing and analyzing academic datasets.
- Built interactive visualizations with Chart.js, delivering dynamic insights from complex data.
- Implemented Mocha and Chai for backend testing, ensuring robust and error-free performance.

### Real Estate Management Platform | *Express.js, OracleDB*

July – Aug. 2024

- Designed a platform for real estate transactions and property management.
- Implemented API endpoints for asynchronous processing of multi-user requests.
- Utilized OracleDB for efficient querying and data manipulation.

### Amazon Marketplace Analytic Software | *Java, SQL, JSON*

Sept. 2022 – Dec. 2022

- Created a tool to improve seller operational efficiency, reducing overstock by 50%.
- Enhanced data integration capabilities, cutting retrieval times by 40%.

## TECHNICAL SKILLS

**Languages:** Java, Python, JavaScript, TypeScript, SQL, C/C++, Swift, HTML/CSS

**Frameworks:** React.js, Next.js, Vue.js, Node.js, Express.js

**Tools:** Git, Docker, AWS (DynamoDB, S3), Chart.js, JSZip, Tailwind CSS

**Testing:** Mocha, Chai, Unit, Integration, End-to-End, A/B, Fuzz Testing