

Abdul Rafay Khurram

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EDUCATION & AWARDS

The University of British Columbia

Vancouver, BC, Canada

Bachelor of Science in Computer Science (Expected Graduation: May 2027)

Euclid Mathematics Contest, University of Waterloo

2021

Top 5% Internationally, Certificate of Distinction

EXPERIENCE

Software Engineer Intern | TypeScript, AWS, Playwright, OpenAI

Jan. 2025 – Present

Otto Optical Systems (Contello.ai)

Toronto, ON, Canada

- Enabled multi-brand accounts; migrated legacy data with zero data loss and added Playwright E2E gates for releases.
- Accelerated content prep by ingesting brand docs with an NLP step and auto-appending context per channel; added platform-specific AI instructions.
- Expanded publishing coverage across major platforms with multimedia posting and an async video pipeline; added engagement analytics and Canva export.
- Reached 99.9% scheduled-post success by moving generation to the OpenAI Responses API, hardening auth/session, and adding scheduler-driven email notifications.

Software Developer & Team Lead | Unreal Engine, C++, Python

Sept. – Dec. 2024

UBC Emerging Media Lab

Vancouver, BC, Canada

- Led an AI-powered VR platform in Unreal Engine simulating clinical scenarios for the UBC School of Nursing.
- Increased stability with a supervisory layer that monitors the AI patient and auto corrects off protocol replies.
- Delivered a functional prototype in two weeks, securing project funding.
- Cut backend costs by 90% via system optimizations, improving performance by 40%.

Software Engineer Intern | Vue.js, JavaScript, Jenkins, Docker

May – Aug. 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

SoloPilot — Client Ops Studio | Python, TypeScript/Next.js, AWS, LangChain

Jun 2025 – Present

- Building a human in the loop platform for solo freelancers that unifies client intake, planning, proposals, coding, QA, and delivery in one workspace.
- Shipped an email intake console and conversational manager that triages threads, captures scope, and renders versioned proposal PDFs with inline annotations and a revision loop.
- Improved email intake copy quality: an evaluator summarizes and scores email body drafts against a rubric, then a revisor agent produces a higher scoring alternative for side by side review and edit.
- Unified AI and governance: provider agnostic LLM layer with centralized logging; a repo aware coding and deployment agent; CI quality gates; AWS backed operations (SQS queues, versioned S3 storage, CloudWatch).

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 (SQL)

July – August 2023

- Built a real estate platform integrating inspectors and contractors.
- Designed an OracleDB schema with ISA relationships for efficient queries.
- Built Express.js APIs with async handling for concurrent listings.

TECHNICAL SKILLS

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

Platforms & Tools: Next.js, Node.js/Express, Playwright; AWS (Amplify, Lambda, DynamoDB, S3, SQS, CloudWatch); OpenAI API; Meta/LinkedIn/X/Canva APIs; Git, Docker, Yarn, Tailwind CSS