

Abdul Rafay Khurram

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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.

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

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