

Abdul 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/Node.js, AWS, Playwright, OpenAI

Jan. 2025 – Present

Contello.ai

Toronto, ON, Canada

- Delivered real-time scheduling dashboards plus async pipelines (TypeScript/Next.js, Node.js) that visualize queue health and keep multi-brand campaigns in sync across thousands of posts/day.
- Accelerated content prep by ingesting brand playbooks with an NLP pass, caching embeddings, and auto-injecting channel-specific context into compose flows to enforce guardrails.
- Expanded media coverage with distributed video publishing, resilient queue workers, and engagement analytics, plus Canva export so editors hand off polished assets without leaving the app.
- Raised scheduler reliability to 99.9% by moving generation to OpenAI Responses API, layering Playwright E2E + integration tests in CI, tightening auth/session, and wiring retry/backoff plus alerting for fast debug loops.

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

Sept. – Dec. 2024

UBC Emerging Media Lab

Vancouver, BC, Canada

- Led an AI-powered VR trainer in Unreal (C++) for the UBC School of Nursing, designing branching UI/state machines that mirror clinician decision trees.
- Stabilized sessions with a multithreaded supervisory layer (C++/Python) that monitors the AI patient, enforces protocol rules, and auto-corrects errant replies in real time.
- Delivered a functional prototype in two weeks with clinicians in the loop, securing project funding.

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

May – Aug. 2023

Faaz Consulting

McLean, VA, USA

- Improved UI responsiveness by 30% and rebuilt navigation-heavy workflows in Vue.js so inspectors reached critical tools in fewer steps.
- Automated CI/CD with Jenkins and Docker, reducing deployment times by 20% and catching regressions earlier.
- Refactored legacy Java services, triaged production bugs, and shipped updates under strict client deadlines.

PROJECTS

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

Jun 2025 – Present

- Building a human-in-the-loop ops studio that unifies intake, planning, proposals, coding, QA, and delivery in one workspace with shared context and versioning.
- 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.
- Built an evaluator→revisor agent loop with rubric-based benchmarking (score + revision), improving copy quality.
- Unified AI and governance: Provider-agnostic LLM agent layer with centralized logging; repo-aware coding/deploy agent; CI quality gates; AWS-backed ops (Bedrock, SQS, versioned S3, CloudWatch).

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

Sept. – Dec. 2024

- Developed React dashboards with Chart.js that let students navigate live enrollment data in real time.
- Integrated Node.js REST APIs and caching so visualizations stayed in sync with registrar feeds.
- Implemented Mocha + Chai backend tests covering edge cases before each release.

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 and transactional SQL operations for concurrent listings.

TECHNICAL SKILLS

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

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