

Jared Paul

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EDUCATION

University of British Columbia <i>Bachelor of Applied Science, Computer Engineering with Distinction</i>	May. 2023 Vancouver, BC
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EXPERIENCE

Software Development Engineer <i>Amazon - Prime</i>	Jan. 2024 – Present Vancouver, BC
<ul style="list-style-type: none">Led deprecation of legacy service across 20+ cross-functional teams, delivering \$200,000+ in annual cost savingsDesigned and launched customer service integration for local payment method in Spain, contributing to 15% increase in regional Prime member acquisition rateMigrated legacy service to GraphQL-based system, including data model redesign, comprehensive testing, and performance optimization, achieving 66% latency reductionLed correction of error (COE) incident resolution for critical service collaborating across 4 organizations and additionally identified cost optimization opportunities that reduced service expenses by 31%	
Software Engineer <i>Dexa.ai</i>	Aug. 2023 – Jan. 2024 Remote
<ul style="list-style-type: none">Developed the search interface using TypeScript, enabling users to pinpoint niche insights from 10,000+ videosImplemented authentication system including Google OAuth integration to streamline user onboardingAutomated a way to identify and categorize experts from general speakers, eliminating manual intervention in the ingestion pipeline and increasing processing rate by 1000% (from 10 to 100 videos per week)	
Software Development Engineer Intern <i>Amazon</i>	May 2022 – Aug. 2022 Vancouver, BC
<ul style="list-style-type: none">Worked and coordinated with multiple different teams to push new payment methods for Amazon PrimeCreated a web application using React to perform MFA challenges for all payment methods, cutting QA testing costs from \$90,000 to \$1,000 and reducing testing time from 5 weeks to 1 week	
Undergraduate Research Assistant <i>University of British Columbia</i>	May 2021 – Aug. 2021 Vancouver, BC
<ul style="list-style-type: none">Worked under the supervision of Professor Sathish Gopalakrishnan on algorithmic scheduling problems related to intermittent batteryless systemsCo-authored and published research paper at the IEEE Real-Time Systems Symposium (RTSS) 2022	
Software Engineer Intern <i>Maru Group</i>	May 2019 – August 2019 Vancouver, BC
<ul style="list-style-type: none">Constructed a Job Queue API in php using Redis to allow the execution of tasks asynchronouslyDesigned a system in C# to evaluate system resources over the execution time of SQL Server queries	

PROJECTS

UBC Thunderbots <i>C++, Python, PyQt</i>	github.com/UBC-Thunderbots/Software
<ul style="list-style-type: none">Developed fully-autonomous soccer playing robots competing in the international RoboCup CompetitionRewrote the calculate best shot algorithm achieving a 70% speed improvement verified by profiler analysisCrafted a physics-realistic C++ and Python simulator using Qt to test and visualize robot behavior	
Karaoke Machine - Juicebox <i>Rust, TypeScript</i>	github.com/juice-joint/juicebox
<ul style="list-style-type: none">Built a fully functional YouTube-based karaoke machine in Rust using Tokio and Axum, achieving a reduction from 100% CPU usage to 25% when compared to Python approachAuthored a custom actor framework to achieve efficient concurrency and message-passing between componentsImplemented MPEG-DASH with ffmpeg pitch shifting to enable streaming different audio keys	

TECHNICAL SKILLS

Languages: Java, Python, C/C++, Rust, C#, SQL (Postgres, MySQL, SQLServer), JavaScript, TypeScript, HTML/CSS, Verilog/SystemVerilog

Frameworks: React, Node.js, JUnit, Qt, Tokio, Axum

Developer Tools: Git, Docker, Redis, Linux, TravisCI, OpenAI APIs, Pinecone