

# Jared Paul

[jared@cereal.box](mailto:jared@cereal.box) | [linkedin.com/in/jared-p](https://linkedin.com/in/jared-p) | [github.com/jared-paul](https://github.com/jared-paul)

## EDUCATION

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

## EXPERIENCE

<b>Software Development Engineer</b> <i>Amazon - Prime</i>	Jan. 2024 – Present <i>Vancouver, BC</i>
<ul style="list-style-type: none"><li>Led deprecation of legacy service across 20+ cross-functional teams, delivering \$200,000+ in annual cost savings</li><li>Designed and launched customer service integration for local payment method in Spain, contributing to 15% increase in regional Prime member acquisition rate</li><li>Migrated legacy service to GraphQL-based system, including data model redesign, comprehensive testing, and performance optimization, achieving 66% latency reduction</li><li>Led 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%</li></ul>	
<b>Software Engineer</b> <i>Dexa.ai</i>	Aug. 2023 – Jan. 2024 <i>Remote</i>
<ul style="list-style-type: none"><li>Developed the search interface using TypeScript, enabling users to pinpoint niche insights from 10,000+ videos</li><li>Implemented authentication system including Google OAuth integration to streamline user onboarding</li><li>Automated 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)</li></ul>	
<b>Software Development Engineer Intern</b> <i>Amazon</i>	May 2022 – Aug. 2022 <i>Vancouver, BC</i>
<ul style="list-style-type: none"><li>Worked and coordinated with multiple different teams to push new payment methods for Amazon Prime</li><li>Created 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</li></ul>	
<b>Undergraduate Research Assistant</b> <i>University of British Columbia</i>	May 2021 – Aug. 2021 <i>Vancouver, BC</i>
<ul style="list-style-type: none"><li>Worked under the supervision of Professor Sathish Gopalakrishnan on algorithmic scheduling problems related to intermittent batteryless systems</li><li>Co-authored and published research paper at the <a href="#">IEEE Real-Time Systems Symposium (RTSS) 2022</a></li></ul>	
<b>Software Engineer Intern</b> <i>Maru Group</i>	May 2019 – August 2019 <i>Vancouver, BC</i>
<ul style="list-style-type: none"><li>Constructed a Job Queue API in php using Redis to allow the execution of tasks asynchronously</li><li>Designed a system in C# to evaluate system resources over the execution time of SQL Server queries</li></ul>	

## PROJECTS

<b>UBC Thunderbots</b>   <i>C++, Python, PyQt</i>	<a href="https://github.com/UBC-Thunderbots/Software">github.com/UBC-Thunderbots/Software</a>
<ul style="list-style-type: none"><li>Developed fully-autonomous soccer playing robots competing in the international RoboCup Competition</li><li>Rewrote the calculate best shot algorithm achieving a 70% speed improvement verified by profiler analysis</li><li>Crafted a physics-realistic C++ and Python simulator using Qt to test and visualize robot behavior</li></ul>	
<b>Karaoke Machine - Juicebox</b>   <i>Rust, TypeScript</i>	<a href="https://github.com/juice-joint/juicebox">github.com/juice-joint/juicebox</a>
<ul style="list-style-type: none"><li>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 approach</li><li>Authored a custom actor framework to achieve efficient concurrency and message-passing between components</li><li>Implemented MPEG-DASH with ffmpeg pitch shifting to enable streaming different audio keys</li></ul>	

## 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