

Jared Paul

jared@cereal.box | linkedin.com/in/jared-p | github.com/jared-paul

EDUCATION

University of British Columbia

Bachelor of Applied Science, Computer Engineering with Distinction

May. 2023

Vancouver, BC

EXPERIENCE

Software Development Engineer

Jan. 2024 – Present

Amazon - Prime

Vancouver, BC

- Led deprecation of legacy service across 20+ cross-functional teams, delivering \$200,000+ in annual cost savings
- Designed and launched customer service integration for local payment method in Spain, contributing to 15% increase in regional Prime member acquisition rate
- Migrated legacy service to GraphQL-based system, including data model redesign, comprehensive testing, and performance optimization, achieving 66% latency reduction
- 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%

Software Engineer

Aug. 2023 – Jan. 2024

Dexa.ai

Remote

- Developed the search interface using TypeScript, enabling users to pinpoint niche insights from 10,000+ videos
- Implemented authentication system including Google OAuth integration to streamline user onboarding
- 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)

Software Development Engineer Intern

May 2022 – Aug. 2022

Amazon

Vancouver, BC

- Worked and coordinated with multiple different teams to push new payment methods for Amazon Prime
- 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

Undergraduate Research Assistant

May 2021 – Aug. 2021

University of British Columbia

Vancouver, BC

- Worked under the supervision of Professor Sathish Gopalakrishnan on algorithmic scheduling problems related to intermittent batteryless systems
- Co-authored and published research paper at the [IEEE Real-Time Systems Symposium \(RTSS\) 2022](#)

Software Engineer Intern

May 2019 – August 2019

Maru Group

Vancouver, BC

- Constructed a Job Queue API in php using Redis to allow the execution of tasks asynchronously
- Designed a system in C# to evaluate system resources over the execution time of SQL Server queries

PROJECTS

UBC Thunderbots | C++, Python, PyQt

github.com/UBC-Thunderbots/Software

- Developed fully-autonomous soccer playing robots competing in the international RoboCup Competition
- Rewrote the calculate best shot algorithm achieving a 70% speed improvement verified by profiler analysis
- Crafted a physics-realistic C++ and Python simulator using Qt to test and visualize robot behavior

Karaoke Machine - Juicebox | Rust, TypeScript

github.com/juice-joint/juicebox

- 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
- Authored a custom actor framework to achieve efficient concurrency and message-passing between components
- Implemented 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