

Bryce Tham

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Software Engineer | Design Thinker | Solutions Architect

Software Engineer with 6+ years of experience building innovative, user-centric products that deliver real-world impact. Proven ability to lead full-stack development projects, drive cross-functional collaboration, and create technically robust software solutions that meet complex business needs, with a strong track record of delivering in fast-paced environments.

KEY SKILLS

Software Architecture • Full-Stack Development • API/SDK Development • Performance Optimization • UI/UX Design
Web Technologies • Real-Time Media Processing • Test Automation • Data Management/Analytics • AI/ML Integration
Agile/Scrum Methodologies • Cross-Functional Collaboration • Effective Communication • Leadership/Mentorship

TECHNICAL TOOLS

Programming Languages | JavaScript/TypeScript, C/C++, Java, Python
Web Technologies | HTML/CSS, WebRTC, WebAssembly, React, Node.js
Test Automation | WebdriverIO, Selenium WebDriver, Jest, Jenkins
Data Management & Analytics | SQL/MySQL, Grafana, Amplitude, Informatica

PROFESSIONAL EXPERIENCE

Meta

Software Engineer

January 2026 – Present

- Develop features for Meta Horizon Link, enabling users to connect Meta Quest devices to their PC and discover a world of immersive apps, enhanced productivity with remote desktop, and seamless sharing through casting.

Cisco

Software Engineer

August 2019 – October 2025

- Built a client-side low-latency WebRTC media engine for the next generation of React-based Webex web applications, delivering real-time audio, video, and content sharing experiences to 30+ million monthly users.
- Developed and maintained robust, secure, and scalable RESTful and event-driven APIs in the Webex JavaScript SDK, facilitating seamless integrations with 300+ third-party web and mobile applications and services.
- Integrated and optimized AI/ML-powered audio and video enhancements including noise suppression and virtual backgrounds, using data-driven monitoring to improve media quality across 20,000+ weekly meeting minutes.
- Engineered a WebAssembly-based Opus/H.264 media processing module to extend Webex web client compatibility across diverse network and browser environments, enabling access to 2+ million new users.
- Led the design and deployment of a test automation framework using WebdriverIO, automating 30%+ of cross-browser and cross-platform tests, integrating with CI/CD pipelines to ensure release quality and rapid delivery.
- Partnered with customers and cross-functional teams to resolve critical issues during a 300%+ surge in Webex usage amid the COVID-19 pandemic, maintaining service reliability and driving customer satisfaction.

Visa

Software Engineering Intern

June 2018 – September 2018

- Developed full-stack solutions for internal engineering platforms and teams using ServiceNow APIs, enhancing operational efficiency for 17,000+ employees and streamlining CMDB certification for 100+ CI owners.
- Optimized backend data architecture by normalizing database schemas and applying SQL best practices, reducing data redundancy, improving system scalability and reliability, and enhancing data integrity.

UC Irvine

Student Programmer

April 2015 – August 2017

- Collaborated with OIT and data warehouse teams to design and maintain scalable backend database systems, supporting large-scale data analytics and reporting needs while ensuring data accuracy and reliability.
- Analyzed and generated detailed reports for 150+ database tables and ETL jobs, and developed 60+ Informatica ETL mappings, sessions, and workflows to support the legacy operational data store conversion project.

FEATURED PROJECTS & RECOGNITIONS

Webex Web Client | Cisco

- The Webex web client is a fully featured browser-based meeting experience simplifying access and boosting adoption among hybrid and remote workers.
 - 🏆 TrustRadius Top Rated Award, Gartner Peer Insights Customers' Choice, PCMag Editor's Choice

Elevate | Oracle Cloud Innovation Accelerator

- Elevate is a mobile platform assisting formerly incarcerated individuals with job applications, addressing technical literacy and social stigma barriers.
 - 🏆 1st Place, Google Prize, Palantir Prize, Facebook Honorable Mention

QuizBot | Stanford Interaction Design Lab

- QuizBot is a conversational chatbot enabling students to study via natural-language interactions, enhancing engagement and retention.
 - 🏆 ACM CHI Accepted Paper

The Smart Worker | UCI Institute for Software Research

- The Smart Worker is an augmented-reality training tool providing just-in-time support for factory workers, reducing errors and improving productivity.
 - 🏆 UROP Fellowship Award, Best Poster

Bubble Buddy | Autism App Jam

- Bubble Buddy is a web-based virtual communication companion supporting young children with autism in emotion recognition and conversational skills.
 - 🏆 2nd Place, Hype Award

UCI Circle K Website | Circle K International

- The UCI Circle K website is a robust resource hub for members and administrators to access and maintain club information efficiently and effectively.
 - 🏆 1st Place Outstanding Club Website, Distinguished Appointed Board Officer

EDUCATION

Master of Science (MS) in Computer Science

Specialization in Human-Computer Interaction
Stanford University

Bachelor of Science (BS) in Computer Science

Specializations in Information and Algorithms, *summa cum laude*
University of California, Irvine