

# Bryce Tham

✉ brycetham@gmail.com | ☰ www.brycetham.com

## 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.
  - ¶ 1<sup>st</sup> 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.
  - ¶ 2<sup>nd</sup> 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.
  - ¶ 1<sup>st</sup> 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