



## Bryce Tham

Software Engineer & Design Thinker

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I am a software engineer and design thinker, combining cutting-edge full-stack development techniques with innovative UI/UX design that have led to numerous successful partner projects around the world. I'm currently a software engineer at Cisco.

## EDUCATION

### Stanford University

M.S. in Computer Science, 2019  
Specialization in Human-Computer Interaction  
4.05 GPA, CS Department Award

### University of California, Irvine

B.S. in Computer Science, 2017  
Specializations in Information & Algorithms  
3.99 GPA, Summa Cum Laude, Honors in ICS

## SKILLS

### Programming

★ Python, ★ JavaScript/TypeScript, Java, C/C++

### Web Applications

★ HTML/CSS, React.js, MEAN Stack, WebAssembly, WebRTC

### Database Management

★ SQL/MySQL, Informatica

### Human-Computer Interaction

★ Design Thinking, UI/UX Design

### Other Interests

AR/VR Applications, Computer Games, Mobile Applications, Social Good, Technical Writing

★ denotes high proficiency

## WORK EXPERIENCE

### Software Engineer IV | Cisco

Nov 2024 – Present

Previously: Software Engineer II, III

Aug 2019 – Oct 2024

- Built out a web client media engine providing a common WebRTC library for the next generation of Webex web applications.
- Integrated AI/ML-powered technologies to enhance the in-meeting experience, including noise removal and virtual background effects.
- Designed and implemented a WebAssembly-based media solution, enabling millions of users to join Webex meetings for the first time.
- Took ownership of the test automation framework, enhancing and maintaining jobs to automate tests across all major browsers and OSes.

### Software Engineering Intern | Visa

Jun 2018 – Sep 2018

- Engineered full-stack solutions for the Visa Ask Now platform, implementing stories to enhance internal operations and infrastructure.
- Worked with the service catalog team to normalize the backend database and improve the integrity of the service catalog dataset.
- Created an automated attestation scheduled job with ServiceNow API that administers assessments to CI owners for CMDB certification.
- Played a key role in porting an AngularJS-based CI Viewer to the Service Portal that queries and updates application services.

### Programmer Analyst Intern | UC Irvine

Apr 2015 – Aug 2017

- Worked with OIT staff and the Data Warehouse team to develop and maintain backend database systems for the University of California.
- Evaluated and composed reports for over 150 database tables and jobs during the company's successful migration from Talend to Informatica.
- Developed and tested dozens of Informatica ETL mappings, sessions, and workflows as part of the Legacy ODS Conversion project.
- Upgraded the online query-by-example ad-hoc tool in the DWH BLISS Enhancement project with usability, search, and security features.

## FEATURED PROJECTS

### Bubble Buddy | Autism App Jam

1 in 59 children are diagnosed with autism and struggle communicating, identifying emotions, and learning. How might we design a virtual communication companion targeted at young children with autism?

🏆 2nd Place, Hype Award

### Elevate | Oracle Cloud Innovation Accelerator

Low technical literacy and negative social stigma make it difficult for those formerly incarcerated to find a career. How might we create a mobile platform that navigates ex-convicts through the job application process?

🏆 1st Place, Google Prize, Palantir Prize, Facebook Honorable Mention

### QuizBot | Stanford Interaction Design Lab

Advances in conversational artificial intelligence enable more engaging and effective ways to teach factual knowledge. How might we leverage AI to enable college students to study through natural-language conversations?

🏆 CHI 2019 Accepted Paper

### The Smart Worker | UCI Institute for Software Research

Augmented reality has the potential to greatly reduce errors and increase productivity in the manufacturing space. How might we create an AR solution that provides effective just-in-time training for factory workers?

🏆 UROP Fellowship Award