Jonathan Ryan Johnson

Architect

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Profile

Expert in team leadership, development, and psychological safety; enterprise web application development; generative AI user experience and integration; open source contributions and community; modern web standards; cloud systems; accessibility; automated deployment; continuous integration and system automation. Recognized for ability to adapt and expand with the growing needs of an organization and learn new skills as necessary.

Skills

Domain

- Working with and Building Diverse Teams
- Psychological Safety and People Management
- Educational Administration and Curriculum Development
- Open Source Community Maintenance and Communication
- Organization Architecture and Development
- Community Building
- Strategy, Budget, and Planning

Technical

- API Design and Development
- Web Application Development
- Accessibility
- Secure Application Development and Operations
- Test Driven Development
- Open Source Development
- Generative AI Integration UX
- Continuous Integration and Deployment
- AWS and Cloud First Architecture

Talks

- Ilios Architecture, Form Follows Function
- AI or Nay? Balancing Distraction and Utility
- Flow, Flex, and Ship: The Daily Practice of Agile Engineering
- Jumping into Deep Work
- Automagic Deployment with Github Actions
- Microapps: A Covid-19 Case Study
- Cut Your Team Some Slack
- Handling Complicated Tasks with a Chatbot
- Always Be Updating
- Career Day at Aragon High School

Education

BA History (Pre-Law)	MA Educational Administration
University of the Pacific	*University of the Pacific*
2003	**2005**

Sample Code

PHP: Ilios Symfony Backend API Server

Javascript: Ilios EmberJS Web App | ember-cli-image-transformer | ember-noscript | ember-fontawesome

Recent Experience

Education IT

Architect *2024-present* Develop and implement long-term technical and team strategy to meet the needs of the UCSF Education community in partnership with Education IT and school leadership, ensuring the long-term viability of the technical stack and managing short-term operational requirements for all enterprise teaching and learning applications and integrations.

Teaching and Learning Applications

Manager *2019–2024* While still maintaining a focus on technical leadership for the Ilios platform assumed responsibility for the Collaborative Learning Environment and the developers and support staff for CLE systems. Led the campus wide A3 effort to transform the organization and funding model for education at UCSF on behalf of the Committee for Educational Technology; facilitated internship with JCC and served as a mentor for diverse career switchers exploring technology; served as UCTech ambassador with a focus on creating an inclusive conference and recruiting first-time speakers; maintained uptime, stability, and security through multiple system upgrades; seamlessly transitioned to fully remote work; strengthened partnerships with LTG and school technologists during the transition to pandemic remote teaching; proactively advocated for moving our team to the new Educational IT organization and managed the uncertainty and chaos of that transitional while maintaining a rigorous Ilios release schedule and on schedule upgrade of Moodle; served on the Medibiquitous Technical Advisory Group as an API and medical education standards expert.

Ilios Curriculum Management Platform

Technical Lead, Architect *2014–2019* Managed the transition from a code igniter and YUI driven application to a modern Hexagonal Symfony API with an EmberJS frontend for a user-friendly, flexible, and robust web application to collect, manage, analyze and deliver curricular information in Medical Education. Recruited for, administered, and created a code of conduct for the UCTech slack a hugely successful diverse, cross campus collaborative community for technical staff across the University of California.

Jazzee Graduate Admissions

Architect, Developer, Evangilist *2009–2014* Designed and built the Jazzee admissions system to collect and manage graduate applications and payments. Built on an XML API and a revolutionary user customizable form builder with a focus on accessibility, usability, and security. Deployed for admissions at three University of California graduate schools for admissions.