

COOPER BRISLAIN

Software Engineer

📍 Oakland, CA
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Interdisciplinary Software Engineer and Visual Artist seeking role on a team developing innovative software around Augmented Reality, Virtual Reality, IoT, and other emerging fields.

KEY SKILLS

Excellent written communication skills
Lifelong learner
Critical thinker
Ability to conceptualize complex systems
Adaptable and creative problem solving skills
Able to foresee potential future complications and constraints, designing for extensibility and scalability

EXPERIENCE

Software Engineer, BetterHelp, 2015-2016

Worked on an agile team to release iterative improvements to user experience based on data acquired from multivariate analytics.

Utilized XDebug for PHP to identify bottlenecks and reduce landing page load time by 40%, using caching, asynchronous loading, and optimized database queries.

Developed automated qualification and approval for financial aid applicants, freeing significant customer support resources.

Integrated billing system with Paypal's Braintree API, standardizing payment flow and allowing acceptance of new payment methods.

Motion Graphics Software Engineer & Visual Artist, Vektor Selektor, 2011-present

Created audio-reactive, realtime visual content for live music events using Unity, Quartz Composer, GLSL Shaders and Processing.

Design human-computer interaction schemes for controlling live visuals using control surfaces and gesture devices, including Wii Remote, Xbox Kinect, LEAP Motion, and various MIDI controllers.

Design projection and LED mapping for stages.

Solve complex technical challenges on location, using limited available resources.

Performed original content live before audiences of up to 10,000.

Software Engineer, Visions in Education, 2015-2016

Modernized student information portal.

Standardized course catalog and event listings.

Audited Wordpress extensions and determined optimization strategies to minimize overhead and points of failure.

Brought outdated code repository up-to-date.

Audited repository and codebase diffs to determine points at which undesirable behavior was introduced.

Developed strategies and solutions to avoid future complications.

Lead Software Engineer, Taylor Online Marketing, 2010-2017

Designed mySQL database for auto-shipping leads.

Built RESTful API for partners and affiliates.

Created embeddable form widget for use by affiliates and partners.

Redesigned system for greater extensibility, to both increase lead volume and offer additional cross-selling opportunities.

Designed tools for the reporting and visualization of lead data.

Automated regular or time-consuming tasks to improve efficiency and agility.

Software Engineer, Design Reactor, 2008

Developed interactive Flash landing page for Disney Parks 2008 campaign.

Produced pixel-perfect web materials for marketing campaigns, adhering to strict style guidelines.

Created rich, interactive user interface for agency portfolio, with dynamically populated content.

Software Engineer, Jupiter Hosting, 2007

Developed custom modules and features for in-house content management system. (Based on Joomla and Drupal)

Optimized MySQL queries for highly-trafficked websites.

Support Technician, UCSC Media Services, 2006-2007

Provided technical support to faculty and students using university media equipment including projectors, video cameras, audio systems, and computers.

Maintained readiness of pool of media equipment for rental and checkout, ensuring good working order, cleanliness, and presence of all included components.

Operated service vans on campus while observing high safety standards and awareness in accordance with an active campus with high pedestrian traffic.

Set up and struck A/V and other media equipment for on-campus events.

EDUCATION

UC Santa Cruz – Film & Digital Media • 2007

Napa Valley College; Napa, CA – Computer Science • 2002

COURSEWORK

Abstract Data
Structures

Algorithms

X86 Assembly

Differential
Equations

Discrete Math

Linear Algebra

Logic

Digital Media
Production

Film Studio
Production

Documentary
Production

Film Theory

Digital Media
Theory

Social
Documentation

Java
Programming

C Programming

AP Computer
Science

Cisco
Networking

TECHNICAL SKILLS

Full-Stack Development	Git	Unity	C#	LAMP	Linux
Apache	PHP	MySQL	HTML5	SCSS	RegEx
Node.js	Javascript	JQuery	Front-End Development	Flash	GLSL Shaders
Quartz Composer	Projection Mapping	Agile Development	Trello	Arduino	Object Oriented Programming
MVC	Content Management Systems	Joomla	Wordpress	Adobe Creative Cloud	Photography
Video Production	Integration and Automation				

ASSOCIATIONS

Visual Artist, Opulent Chill • 2017
Visual Artist, Wormhole; Oakland • 2015–Present
Visual Artist, Camp Question Mark • 2009–)(
Technology Director, SCTV; UCSC • 2005
Student Trustee, Napa Valley College • 2002

INTERESTS

Real-time audio-reactive music visualizations
IoT Projects
Generative Art

CORE VALUES

The end user's privacy and security is paramount.
Monetization shouldn't compromise utility.
The best thing to say when you don't know is that you don't know.