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## CAREER SUMMARY

Full-stack Application Developer • Virtual Reality (VR) Developer • IT Manager

- **Visionary and a catalyst** for transformative advancement in technology that is implemented strategically and ethically integrated into the foundation of education, research, and business functions to achieve efficiency, accessibility, enhancement of productivity and collaboration between teams of professionals.
- **Influential problem solver** providing IT consultation, solutions, and services for principal investigators as well as participated in planning and execution of research projects with real-world public health impact.
- **Creative team leader** that proactively initiated and designed technological workflows, applications, and data pipelines to link financial, marketing, student affairs, research, procurement, human resources, and IT services where none previously existed.

*“You have been noted for your adaptability to evolving requirements, your expertise, and your wonderful ability to move from prototype to production quality system. Your work was critical to the portals that are helping us open again for research. Many thanks for your exceptional help during a stressful time.”*

*—Laura Mosqueda MD, Dean, Keck School of Medicine, University of Southern California*

## AREAS OF EXPERTISE

- Application Development
- Database Management
- Team Leadership
- Training/Education
- Interactive Multimedia
- Virtual Reality Production
- Technology Consultation
- Video/Animation Production
- Mentorship
- Engaging Presentations
- Summary Reports
- Illustrations/Digital Graphics

## CERTIFICATIONS

### Human Research Social-Behavioral Human Subjects:

Collaborative Institutional Training Initiative. Credential ID 20215542

### Research HIPAA:

Collaborative Institutional Training Initiative. Credential ID 43587059

## SOFTWARE AND PROGRAMMING SKILLS

PHP, JavaScript, HTML5, CSS, jQuery, MySQL, Bootstrap, Python (basics), C# (for Unity), REST API, WordPress, AWS

Unix Server (Ubuntu), Microsoft Windows, AWS, Mac OS, Linux. MS-DOS

Microsoft Office, Unity 3D, Blender3D, Photoshop

Atom.io, Microsoft Visual Studio, PyCharm, MonoDevelop, and more...

## RECENT PROJECTS

**Resumption Plans for Keck School of Medicine:** Virtual portal to resume research of more than 500 researchers.

**LAC+USC Physician Time Study (PTS):** Tracks time for health care providers.

**Research Personnel Database System:** maintains real-time information on occupants of laboratories and research teams to communicate information regarding emergency situations, research opportunities, and space occupancy.

**Student Affairs Portal, Financial Administration and Management System (FAM\$), Department Faculty Portal, and many more applications for the Department of Population and Public Health Sciences (PPHS).**

Applications were built with PHP, HTML, CSS (bootstrap framework), MySQL, SQL, Ajax, javascript (jQuery).

#### **Programmer Analyst IV / IT Manager**

- **Founded a departmental IT/Multimedia service team** and recruited skilled and talented individuals.
- **Managed and coordinated IT team to serve** +150 faculty, +500 staff members, and nearly 2000 graduate students over time.
- **Development of multiple custom applications.** Applications ranging from research recruitment management, student information systems, and administration systems, to financial shadow systems. Conducted needs assessment for end users, drafted plans, gathered resources, development application, testing, deployment, and maintenance of complex applications.
- **Generated dynamic and static documents and reports** for departmental chair and program directors.
- **Provided mentorship, direction, and instructions** for the team to abide with university guidelines and policy on confidentiality, security, advancements in technology and disaster recovery plans.
- **Managed web and data servers** hosting research data, applications, and front facing WordPress websites as well as training faculty, staff, and students on web development.

## **RELEVANT PROFESSIONAL EXPERIENCE**

**Department of Population and Public Health Science, Keck School of Medicine,**  
**University of Southern California,** Los Angeles, CA

**2010 – Present**

*A self taught and a self-driven problem solver, who started as webmaster for the Master of Public Health (MPH) Program, promoted through the ranks to Institution of Health Promotion and Disease Prevention (IPR), earned an internal title as IT Manager for the Institution promoted to a senior position by the Chief Administrative and Financial Officer after demonstration of impressive vision and exceptional skills. Currently participating as the lead web application developer, various projects for the Dean's Office created an application that enables researchers to return to their labs and resume research. Having a great impact on research and service for over 500 instructors, researchers and doctors conduct research at the Keck School of Medicine. For the department, developed applications that assisted over 10,000 prospective, alumni, and current students, and financial systems to manage grant and salary shadow systems. As a result, the department gained tools, through my applications enabling day-to-day work to be more convenient, accessible, secure, and efficient. Currently seeking to grow and find ways to make an impact in the world for the better with existing and emerging technology.*

**Master of Public Health Program, University of Southern California,** Los Angeles, CA **2006 – 2009**

*Designed websites for Public Health Program as well as produced promotional materials.*

#### **Webmaster**

- Produced marketing and promotional materials for the web and print
- Established education program's very first web server and created a student management web application
- Provided technical support and procurement

**Center for Academic Support and Disability Services and Programs,**

**University of Southern California,** Los Angeles, CA

**2001 – 2002**

*Going in with basic skills, self-taught and acquired advanced skills to create websites on the job.*

**Web Designer – Part Time**

- Introduced the plan to provide an online based tutorial system to the vice president of the University.
- Assisted students with disabilities with academic tasks.

**EDUCATION**

**Master of Public Health Program (MPH), with emphasis in Health Communication**

University of Southern California, Los Angeles, CA

**Bachelor’s Degree, Health Promotion and Disease Prevention**

**Minor in Interactive Multimedia**

University of Southern California, Los Angeles, CA



**Web Application Development**

Created multiple full stack applications using PHP, CSS, Javascript, MySQL, and Python, using modified MVC framework, Bootstrap, jQuery, and follows object oriented design.

Applications are developed in Windows 10 OS, and run on Ubuntu Unix based servers on Virtual Machines and on Amazon Web Services (AWS).

**Unity Projects**

Over 5+ years, I’ve been learning and creating with Unity on many personal projects. My diversified portfolio can be viewed on <https://andrewzaw.com>. My creations include 2D and 3D interactive media that feature adventures, virtual reality, augmented reality, procedurally generated assets to architecture concepts for actual non-profit organization.

**Assets and textures:** created in photoshop and Blender 3D.  
**IDE:** in C#, using MonoDevelop, NotePad++ and Microsoft Virtual Studio.

