Hello! I am **James Shane**. I work as a full stack developer. I have a passion for clean, minimal and easy to use interfaces. Striving for proper database design and integrity.

Work Experience

Database Administrator - Custom Software Developer

Metropolitan State University of Denver

08/1999 - 06/2003

Starting out as a work study position, I soon became one of three system DBAs managing the master student database holding personal, class and grade data for the whole university. During my stint I was lead developer for the helpdesk software that helped the university campus track and resolve tech issues and computer repair/deployment for professors and administrative staff. Along with maintaining the off-the-shelf CRM software, I built custom tools to work along-side the CRM to handle tracking of computer repair and deployment of new computers for customer relation staff.

Oracle Products ≦ 8g, PERL, PHP, SQL, Unix, Linux, HTML, Microsoft Access, VB, Objective-C

Lead Web/Mobile Developer - Project Manager - Lead Database Administrator

Klein Buendel, Inc.

11/2003 - 11/2018

Starting out as a Customer Support Agent and Jr. Developer, I quickly became the Lead Developer after the head developer moved to a new job, shortly after my hire. The first three years I was the sole developer before the company expanded. Continuing the next 10 years, I held the Lead Developer title as other developers came and went, managing up to four individuals and a few projects as project coordinator. The last two years the company reconfigured making me the Lead Database Administrator for all projects. Throughout my 15 years I always held responsibilities in deciding company-wide technologies, customer support lead and backup IT Manager when IT Manager was away.

.NET, Microsoft SQL Server, C#, Javascript, Flash AS 2/3, CSS, HTML, iOS (Objective C), Android (Java)

Full Stack Developer

Freelance.

06/2010 - Present

Freelance work has always called upon my skills. During my career I've performed a wide range of freelance jobs varying in project and team size. Please refer to the Freelance section for more detail.

Freelance

WordPress Developer

Acclaro Design

05/2015 - 12/2015

I was hired to develop (Running Denver) https://runningdenver.com/ by adding a race information platform including event info, registration and map integration. This included WordPress code and style modification as well as incorporating plugins both off-the-self and custom.

PHP, HTML, CSS, WordPress, MySQL

Developer

Laradon

06/2010 - 08/2015

Over the five years I developed two major projects. An internal shopping cart for Laradon staff to request supplies from the asset department. This involved creating a configurable library to add, delete and modify stock. Order tracking and internet alert system for both requester and provider. As well as, tracking which account from each department to apply cost of asset provision. The second project was to create a full registration for the *Right to Work* project for disabled individuals looking for work provided by Laradon job leads. This involved securely collecting private information and developing a safe alert/communication system for both the client and employer.

.NET, C#, CSS, Microsoft SQL Server

CTO - Consultant

Borealis Media Group

09/2017 - Present

I'm working as a CTO/Consultant for Borealis Media Group (BMG) in assisting the CEO on developing radio broadcasting technology. I maintain the cloud-based server system as well as the PHP websites while providing constant solutions for Linux based servers, email configurations and anything to keep production of more than two live broadcasting clients running on a daily/weekly basis.

Google Cloud, Ubuntu, PHP, HTML, CSS, WordPress, MySQL, Telephony

.NET Developer - Full Stack Developer

Soura Tech

11/2018 - Present

Soura Tech works with oil pipeline companies in the Oklahoma region. My first project was developing a custom website application to track assets and tasks. Currently, I'm working on a general website for a client with a management system for classes dealing with pipeline field education. This website will manage classes and student registration.

.NET, MVC, Microsoft SQL Server, C#, Javascript, TypeScript, Nodejs, CSS, BootStrap, HTML

Publications

User-centered development of a smart phone mobile application delivering personalized real-time advice on sun protection

Transl Behav Med. 2013 Sep; 3(3): 326–334.

David B Buller, PhD corresponding author Marianne Berwick, PhD - James Shane, BS - Ilima Kane, MA - Kathleen Lantz, PhD - Mary Klein Buller, MA

A standard iterative production process was employed to create the mobile application, named Solar Cell. It began with a specifications document derived from focus group findings that described data sources, algorithms, features and functions. Programmers used it to create wire-frames depicting content flow, which were reviewed and modified by our research team. A prototype of Solar Cell was initially produced to operate on Google's Android 1.6 or higher operating system, using Google's software development kit. After testing the prototype for usability, modifications were made to create a fully produced version of the Solar Cell, which was refined through further usability testing. Solar Cell used the location of the smart phone to download UVI forecast data from NOAA servers and combined that data with algorithms and user data to provide real-time feedback and information to users. All functions and features were tested in-house for platform stability and errors, and modifications were made to fix problems identified in the usability testing.

Randomized Trial of a Smartphone Mobile Application Compared to Text Messaging to Support Smoking Cessation

Telemed J E Health. 2014 Mar 1; 20(3): 206–214.

David B. Buller, PhD - Ron Borland, PhD - Erwin P. Bettinghaus, PhD - James H. Shane, BS - Donald E. Zimmerman, PhD

REQ-Mobile was feasible for delivering cessation support but appeared to not move smokers to quit as quickly as text messaging. Text messaging may work better because it is simple, well known, and delivered to a primary inbox. These advantages may disappear as smokers become more experienced with new handsets. Mobile phones may be promising delivery platforms for cessation services using either smartphone applications or text messaging.

Developing the eCPP: Adapting an Evidence-Based Parent Training Program for Digital Delivery in Primary Care Settings

World views on Evidence-Based Nursing, 2015; 12:1, 31–40.

Susan M. Breitenstein, RN, PhD, PMHCNS-BC - James Shane, BS - Wrenetha Julion, RN, PhD - Deborah Gross, RN, DNSc, FAAN

The finale CPP is a six-module Internet-based intervention that includes: interactive activities, video examples and explanations of parenting strategies, reflection questions, assessmentof parent knowledge with feedback, and module practice assignments.

Smartphone Mobile Application Delivering Personalized, Real-Time Sun Protection Advice: A Randomized Clinical Trial

JAMA Dermatol. 2015 May 1; 151(5): 497–504.

David B. Buller, Ph.D. - Marianne Berwick, Ph.D. - Kathy Lantz, Ph.D. - Mary Klein Buller, M.A. - James Shane, B.A. - Ilima Kane, M.A. - Xia Liu, M.A.

The Solar Cell mobile app was available for Android smart phones and has been described in detail elsewhere. In brief, it provided personalized sun protection advice based on: 1) 5-day hour-by-hour UV Index forecasts issued daily by the National Oceanic and Atmospheric Administration (NOAA) for each 0.5° latitude-longitude grid in North America (approximately 40 mi. × 40 mi.), 2) time and location from the phone, and 3) personal information from the user (i.e., skin phenotype, height, weight, age, clothing coverage, use of sunscreen and its SPF, and use of medications increasing sun sensitivity). Using algorithms based on published literature, Solar Cell provided the following advice: a) risk of sunburn (time until sunburn and level of risk [low, moderate, extreme]), b) time until reapplication of sunscreen, c) recommended sun protection practices (sunglasses, sunscreen, hats, protective clothing, shade, and go indoors), d) current forecasted UV Index, and e) estimated amount of vitamin D produced by the skin. Pop-up screens provided educational information. Visual and audible alerts signaled when users needed to reapply sunscreen, achieved the recommended daily dose of vitamin D, and were at extreme risk of sunburn. Users could indicate when they were in the sun, in the shade, or indoors. Risk of sunburn was adjusted for skin phenotype, use of sunscreen and shade, and being indoors.

Evaluation of Immediate and 12-Week Effects of a Smartphone Sun-Safety Mobile Application: A Randomized Trial

JAMA Dermatol. 2015 May 1; 151(5): 505–512.

David B. Buller, Ph.D. - Marianne Berwick, Ph.D. - Kathy Lantz, Ph.D. - Mary Klein Buller, M.A. - James Shane, B.A. - Ilima Kane, M.A. - Xia Liu, M.A.

The Android and iPhone versions of Solar Cell provided identical advice which is described in detail elsewhere. The mobile app provided users with an estimate of their risk of sunburn (time until sunburn and level of risk [low, moderate, extreme]), time until they needed to reapply sunscreen, advised sun protection practices (sunglasses, sunscreen, hats, protective clothing, shade, and go indoors), current forecasted UV Index, and an estimate of the amount of vitamin D made in their skin. This advice was generated by algorithms from the published literature that combined the 5-day hour-by-hour UV Index forecast by the National Oceanic and Atmospheric Administration (NOAA) for each 0.5° latitude-longitude grid in the United States (published daily online), time and location of the phone, and user-input information including skin phenotype, clothing coverage, use of sunscreen and its SPF, height and weight, and use of medications increasing sun sensitivity. Sunburn risk was tailored to skin phenotype and adjusted in real time for use of sunscreen and shade, being indoors, and hourly changes in the UV Index. Extreme sunburn risk, need to reapply sunscreen, and achieving the recommended daily dose of vitamin D were indicated using visual and auditory alert. There were slight appearance and functional differences in the Android and iPhone versions due to differences in how their operating systems performed.

Education

Bachelor of Science

Metropolitan State University of Denver

Major: Computer Science

Minor: Mathematics

GPA: 3.8

President's Honor Role
Degree plan focused on software engineering in team situations.

Contact

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