



**John Shaw**

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## SUMMARY

Creative solution developer with a wide range of experience in hardware and software development.



## TECHNICAL SKILLS

### **Platforms:**

iOS, Android, Windows, MacOS,  
Linux, Web

### **Automation Technologies:**

Fastlane, Jenkins, Ansible, Docker,  
Puppet, XCTest

### **Programming:**

Swift, Objective C, Java Script, Java,  
HTML, CSS, PHP, C#, C++, Python,  
Ruby, SQL, Git, many others

### **IDEs:**

Xcode, Eclipse, Android Studio,  
VS Code, Visual Studio, Spyder,  
many others

### **Firmware:**

AVR Studio, TI DSP

### **Circuit Board Development:**

Eagle PCB, OrCAD

### **CAD/CAM:**

Solidworks, CAMWorks,  
COSMOSWorks

### **Office Tools:**

MS Office suite, Open/LibreOffice  
suite, MS Project, Open WorkBench,  
Quickbooks



## EDUCATION

Bachelor of Science  
Business Administration  
University of Wyoming  
Laramie, Wyoming



## SELECTED ACCOMPLISHMENTS

- Integrated DevOps tools used to automate development and delivery of a top 100 phone app/website.
- Wearable Bluetooth medical device and associated app: Worked with hardware engineers to debug firmware and interface device to iOS app.
- Developed and published iOS and Android applications and wrote PHP based app back-end REST server interfaces.
- Led development team of engineers to completely redesign industrial automated fruit labeling system. Personally developed touch screen interface software and embedded machine code.
- Founded and built start-up network based security camera systems company from zero to \$15M in annual revenues over a three year period. Work included developing from scratch ISA and PCI boards to do camera capture and switching.
- Led development of game changing distributed scalable video web server products that made large scale geographically dispersed hardware appear and function as one system.



## PROFESSIONAL EXPERIENCE

**TripAdvisor**, Boston Massachusetts,  
Software Engineer II

Developed iOS app software as part of a massive team maintaining a worldwide top 100 app. Coordinated efforts to automate configuration, testing, and internalization of the most internationalized app in the world. Advanced to a central position integrating dev-ops and the app publishing process for both Android and iOS.

**ICON Mobile**, Santa Monica, California,

Contractor: Knee Voice Project <http://kneevoice.com>

Hired to develop prototype iOS app from design documents. Ended up doing that plus developing the software interface to the bluetooth device. Was the liaison between hardware engineers in Berlin and Shanghai. Tested and debugged firmware.



## PROFESSIONAL EXPERIENCE

(Continued)

### **Freelance Software Development**, Santa Monica, California,

Collaborated with two design/creative companies working on various software projects:

- Google Maps API location based messaging program including extensive use of iOS active (app in foreground) and passive (app in background) location services APIs to alert user when they enter and exit tagged locations.
- IOS and Android smart phone app/web front end and back end application to facilitate consignment sales using iOS, Android, PHP, Java Script technologies.
- PHP/Java Script based custom client area for user cloud based file collection and distribution to clients.
- IOS and Android smart phone promotional app using audio responses to user typed questions. Included direct app to Facebook and Twitter integration.
- Developed or maintained several websites using HTML, CSS, PHP, Java Script and Wordpress.

### **Service Machines Inc.**, Los Angeles, California,

Owner

Founded and funded company to develop and capitalize on intelligent robotic technologies which led to providing automation solutions for local manufacturers. Built infrastructure and led team of up to 10 engineers in the design and prototyping of complex mechanical, electronic and software solutions.

Projects included:

- Crack detection machine vision software to insure part quality written in C#.
- Vibratory dental cleaning instrument.
- Robotic Development Kit. A million dollar development project including ground up development of mechanical parts, electronics, firmware, network interface, hardware SDK and end user applications.
- Fruit Labeling Machine with C# based kiosk controller.
- Ball bearing lubrication work cell with C# based touch screen controller. Included custom SDK linking high end manufacturing robots to end user software.
- Java based machine vision software library.

### **Progressive Systems LLC**, Birmingham Alabama,

Founder/CEO/CTO/Controlling Partner

Founded company that developed Network Video Server technology for public schools (K-12) and childcare industries.

Accomplishments:

- Developed hardware and software for distributed scalable video web server products. Included custom TI DSP based PCI cards, VB based custom web server with server side scripting.
- Revolutionized video system maintenance by developing VB based automated 24 hour monitoring operations, actively checked the status of 2000+ servers and 40,000+ cameras every 10 minutes.
- Oversaw installation operations as primary contractor in 40 US states over a three year period. Was licensed General Contractor in over 5 states including California.

### **COMSYS**, Birmingham Alabama,

Consultant

Performed contract programming services for BellSouth Public Communications.

- Programmed sales reporting tools and core business applications in an Oracle server/PC workstation environment for a Fortune 500 telecommunications company including extensive SQL development.
- Developed sales reporting tool based on multiple user input criteria.
- Helped programming staff by making SQL coding tool to develop complex SQL queries.

### **Southern Computer Systems**, Birmingham Alabama,

Application Developer

Programmed document solutions for large paper/data processing customers.

- Developed and performed on-site implementation of image based 400 user remit processing system for the Georgia Department of Labor.