

# Caleb Peterson

Front-end Developer  
Certified Usability  
Analyst

Human Factors Int'l #2018-6949

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## Objective

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## Education

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## Continually Learning

Jef Raskin  
The Humane Interface

Edward Tufte  
The Visual Display of Quantitative  
Information  
Visual Explanations  
Envisioning Information

Donald Norman  
The Design of Everyday Things  
The Design of Future Things

General Stanley McChrystal  
Team of Teams: New Rules of  
Engagement for a Complex World

Ed Catmull  
Creativity, Inc.

*and many more...*

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## Caleb M. Peterson

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Fort Worth, TX

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JavaScript/User Interface engineer and certified UX practitioner with extensive Java/JVM back-end and DevOps experience seeking a full-time telecommute position near a company which delivers value by understanding and serving their users first.

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## Texas Tech University / College of Engineering

AUG 2002 - DEC 2007, LUBBOCK TX

Bachelor's of Science in Computer Science  
Bachelor's of Science in Electrical Engineering  
Minor in Mathematics  
Magna Cum Laude in Honors Studies

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## Skills

DEEPLY FAMILIAR WITH BOTH OBJECT ORIENTED AND FUNCTIONAL PROGRAMMING PARADIGMS

## Languages

JavaScript (front-end, back-end, tooling), JSX  
HTML/CSS/Less/Scss  
Java (deep knowledge), Groovy (working knowledge),  
Clojure (working knowledge), C# (working knowledge),  
Ruby (limited to infrastructure automation with Chef),  
Scala (limited knowledge), C/C++, PHP (very limited),  
Erlang (limited to study of actor concurrency model)  
English (fluent), Spanish (*un poquito*)

## Frameworks, Tools, and Platforms

React/Redux, Webpack, Babel, Node/NPM  
Spring Boot, Gradle  
PaaS (Heroku, Pivotal CF, IBM Bluemix)  
Linux and Windows

## Techniques

Continuous Integration and Delivery with Jenkins  
Automated Unit and Functional Testing

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## Experience

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### **BNSF Railway / Consulting Systems Developer II**

JAN 2008 - PRESENT, FORT WORTH TX

#### **Lead User-centered Interface Development**

Championed and lead UI/UX Architecture for the organization-wide replacement of legacy Mainframe user interfaces.

Collaborated with other UX practitioners to define organization-wide design languages for web, iOS, and Android.

Implemented, promoted, and supported organization-wide Bootstrap-based design language for web.

Interviewed and observed users on-the-job to understand their role and needs. Designed and implemented numerous UI improvements based on the results of said user research.

Worked on teams which rapidly delivered projects per the direction of C-level executives for enabling external customers to plan and track crude oil shipments by rail and track the location of hazardous material shipments by state and federal agencies including DHS Fusion Centers.

Directly collaborated with train dispatchers and business stakeholders to design and develop a user interface which enabled real-time planning of train movements using a hardware-accelerated time/space visualization.

#### **Lead Technology Modernization**

Lead organization-wide JavaScript tooling initiative in which a team of developers, architects, security, and operations personnel selected testing, static analysis, code coverage, transpilation and bundling tools.

Lead the organizations' standardized continuous integration pipeline implementation of Node/NPM support.

Implemented and supported JWT-based web front-end security library.

Served as 1 of 3 application developers on a team which evaluated and selected a PaaS solution.

Served on the team which introduced continuous integration (with Jenkins) to the entire organization. Created and maintained numerous continuous integration and deployment pipelines in Jenkins.

#### **Lead Organizational Development**

Taught multiple internal courses over JavaScript fundamentals, tooling, state-isolation architecture (a.k.a. "Flux architecture"), testing, and React.

Mentored junior developers in design and implementation of both front-end and back end systems in JavaScript, Java, and Groovy.

### **South Plains Precision Ag / IT Consultant**

2006 - 2011, PLAINVIEW TX

Developed a web interface in PHP and HTML/CSS and hardware communication software in C/C++ for configuration of DGPS ground stations over a cellular network. Worked with third-party vendors to integrate hardware and software components.

### **BNSF Railway / Software Developer Intern**

MAY 2007 - AUGUST 2007, FORT WORTH TX

Developed software to visualize differences between multiple rail network databases.

### **Texas Tech University - Dept. of Electrical Engineering / Intern**

JUNE 2006 - JULY 2006, LUBBOCK TX

Developed real-time digital audio filtering software which ran on an embedded Linux system.

### **Celeritous Technical Services / Embedded Systems Developer**

JUNE 2004 - MAY 2006, LUBBOCK TX

Developed software for an aircraft-mounted infrared crop imaging system used by the USDA.

Developed Windows and embedded systems software in C/C++ which interfaced with in-house hardware via USB.

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## **Diverse**

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### **Music by Gabrielle Aapri / Artist Manager**

2007 - PRESENT, FORT WORTH TX

Managed the production, delivery, and distribution - digital and physical - of my wife's three piano albums.

Managed multiple mailing lists for ongoing customer communication and product release announcements.

Recently began studying cinematography and recording music videos to promote my wife's music on social media.

<https://www.GabrielleAapri.com>

### **Cubicle 6 Software & Design / Owner, Developer, Designer**

2012 - PRESENT, FORT WORTH TX

Designed and developed a meta search engine which enables custom search !bangs layered atop DuckDuckGo's default search bangs.

<https://interrobang.online>

Created and sold a Windows application which, at the press of the re-bound caps lock key, turns the keyboard home row into a set of Vi-esque arrow key bindings.

<http://stickshift.cubicle6.com>