pcclarke.ca
pcclarke@sfu.ca
604-908-1225

Patrick Clarke

Skills

Design
Data Visualization
User Interface Design
User Testing
Prototyping
Design Methodologies

Development
Web Development
Android Development
JavaScript
Java
C
C++
C#
Python

Communication
Public speaking
Technical Writing

Software
Adobe Design Suite
Balsamiq
Axure
Oxygen XML Writer

My goal as a designer is to make sense of the many complexities in our world and to render them understandable. I have a unique combination of communication skills, with knowledge built on economics, technology, and design. I am seeking positions dealing with challenging concepts and interfaces, where I can use my skillset to create the best designs for communicating them.

❦

Data Visualization Design
Visual Analytics Research Assistant, SFU CZLab ❧ May 2014 – May 2015

Context
✢ Spearheaded research towards using fitness trackers to alleivate arthritis
✢ Aimed to design a UI that supported physiotherapists and their patients

Responsibilities
✢ Built click-through UI prototypes in Axure
✢ Performed data analysis using the Pandas Python library
✢ Wrote functional data visualization prototypes in Processing and d3.js
✢ Gathered requirements from physiotherapists in research group

Results
✢ Identified critical patient data through prototyping
✢ Prototypes used to successfully receive grant funding

Web Design
UX Designer, BCcampus ❧ May – December 2012

Context
✢ Assisted with upgrade to ApplyBC, a university application form site
✢ Waterfall development went through design, development, and testing

Responsibilities
✢ Created click-through wireframe prototypes in Balsamiq mockups
✢ Implemented HTML and JavaScript front-end of site with GWT
✢ Researched, designed, and conducted ApplyBC upgrade user test
✢ Wrote report summarizing user test findings in Adobe InDesign

Results
✢ ApplyBC upgrade launched smoothly
✢ User test report guided next iteration of ApplyBC

Lynda.com mobile redesign, UI design course ❧ Fall 2014

Context
✢ Project to design Lynda.com, an online course site, for mobile devices
✢ Redesigned site would sync with university students' enrolled courses

Responsibilities
✢ Performed heuristic evaluations and guerrilla user tests to guide design
✢ Sketched designs and created wireframes collaboratively in Balsamiq
✢ Conducted user tests with paper prototypes based on wireframes

Results
✢ Users quickly found relevant videos
✢ Report noted for being thorough

Work History

Technical Writer/Developer, 2013–15
FINCAD

Visual Analytics Research Assistant, 2014–15
SFU CZLab

UX Designer, 2012
BCcampus

Content Intern, 2011
BroadbandTV

Shipping Clerk, 2008
Aviall

Grocery Assistant, 2004–07
Real Canadian Superstore

Front-end Development
Technical Writer/Developer, FINCAD ❧ May 2013 – May 2015

Context
✢ Contract position to document and design financial software
✢ Flexible role that changed depending on the sprint and release date

Responsibilities
✢ Wrote guide and code samples for SDK product in Java, C#, and C++
✢ Redesigned documentation, written in HTML, CSS, and Python
✢ Designed and implemented CMS in Bootstrap for a Django-based app

Results
✢ Increased readership of user guides
✢ Reduced support calls regarding SDK

Education

BSc School of Interactive Arts & Technology, 2015
  Simon Fraser University

BA Economics, 2010
  Simon Fraser University

Data Visualization Design
English farm prices, Visual analytics course ❧ Spring 2013

Context
- Project to make a polished interactive data visualization
- Used historical time series of English farm prices from 1500-1914

Responsibilities
- Sketched designs and created mockups in Adobe Illustrator
- Researched appropriate techniques for long time series data
- Developed visualization in Java with the Processing library

Results
- Received top grades on project
- Used interaction to facilitate exploration and minimize space

Android Development
Benefit, Mobile app design course ❧ Fall 2013

Context
- Project to make a functional prototype of an Android app
- Team chose to make a fitness app, focusing on data visualization

Responsibilities
- Designed interface through iterating wireframes and prototypes
- Implemented design in Java, and tested to support Android 2.3 and up
- Accessed Fitbit API and stored user data in MySQL on user's device

Results
- Functional prototype worked perfectly in demonstration
- App design called "highly intuitive"

Interactive Object Design
Sunset Sails, Speculative design course ❧ Spring 2014

Context
- Visualize natural gas consumption at Vancouver public buildings
- Present to city engineers & use their feedback to iterate designs

Responsibilities
- Sketched designs and designed slides for presentations
- Accessed natural gas API and connected data to Arduino board
- Constructed physical prototypes

Results
- Presentation skills impressed city staff
- Physical prototype connected to live building data in API

Hexboards, Interaction design methods course ❧ Spring 2012

Context
- Team project to design a product for a local community group
- Design was guided by using research, ideation, and evaluation methods

Responsibilities
- Learned about group needs by performing cultural probes & interviews
- Designed posters to communicate research findings with group & class
- Organized workshops to refine design using group's input on prototypes

Results
- Group found design useful for their needs
- Lecturer described design as highly creative, appropriate

Volunteer History

Toastmasters, 2008–12

Rona MS Bike Tour, 2011

Canadian Liver Foundation, 2011

SFU Leadership Summit, 2011

SFU Residence Training, 2010

Economics Student Society, 2008–10

Public Speaking & Leadership
Club President, Burnaby Mountain Toastmasters ❧ April 2009 — June 2010

Context
- Toastmasters teaches public speaking with practice and peer education
- Few students knew about club, despite being on campus for decades

Responsibilities
- Organized and motivated executive team to facilitate club meetings
- Mentored and assisted members' growth as public speakers
- Created events to challenge members' skills and promote club

Results
- Grew membership from 10 to 30 people
- Members achieved certificates at a much faster rate