

Skills

Design Data Visualization User Interface Design

User Testing Prototyping Design Methodologies

Development

Web Development Android Development Agile Development

Communication

Public speaking Technical Writing

Adobe Design Suite Balsamiq Axure Oxygen XML Writer Adept designer with a solid backing in coding and understanding user needs. Focused towards crafting elegant UX/UI and information design in software development. Broad skillset can fill

many roles, and opens fresh perspectives when cracking wicked problems. Especially talented at communication, whether writing, presenting, or working among varied specialists.



Front-end Development

Technical Writer/Developer, FINCAD → May 2013 - May 2015

Responsibilities

Wrote guide and code samples for SDK product in supported languages Redesigned front-end of documentation, delivered as local HTML pages Updated DTD and Python build scripts for XML documentation files Designed and implemented CMS in Bootstrap for a Django-based app Set up new documentation system using Grunt and Pandoc Authored finance fundamentals guide for novices to product and finance

Increased readership of user guides among internal staff and clients Significantly reduced need for training and support calls Freed up developers and quantitative analysts to focus on key tasks Technologies used XML & DTD HTML/CSS ¡Query (JavaScript) Twitter Bootstrap Java C# C++Python Grunt

Data Visualization Design

Visual Analytics Research Assistant, SFU CZLab → May 2014 - May 2015

Responsibilities

Sketched arthritis health and fitness data visualization concepts Performed data analysis on Fitbit data using the pandas Python library Designed static and click-through prototypes in Illustrator and Axure Wrote functional prototypes in Processing, JavaFX, and d3.js Gathered requirements from collaborating arthritis research group

Results

Created algorithm for parsing raw data into useful information Prototypes critical to successfully winning grant funding Initial user test of design indicated it was easily understandable Technologies used Adobe Illustrator Axure Fitbit API (REST) Processing (Java) JavaFX (Java) HTML/CSS D3.js (JavaScript) pandas (Python)

UX Designer, BCcampus → May - December 2012

Responsibilities

Designed interactions in wireframes and built click-through prototype Implemented HTML, CSS, and JavaScript to match designs at the pixel Researched, designed, and conducted user test with 8 participants Performed heuristic evaluations and designed personas Wrote report summarizing user test findings in Adobe InDesign

Results

Upgraded ApplyBC launched to thousands of users flawlessly Success of upgrade persuaded other institutions to follow suit User test report used as roadmap for next set of upgrades

Web Design

Technologies used Balsamiq Mockups Adobe InDesign HTML/CSS GWT (Java) Selenium **JavaScript**

Grocery Assistant, 2004-07 Real Canadian Superstore

Work History

Technical Writer/Developer,

Visual Analytics Research

Assistant, 2014–15

Content Intern, 2011

BroadbandTV

Shipping Clerk, 2008

SFU CZLab UX Designer, 2012

BCcampus

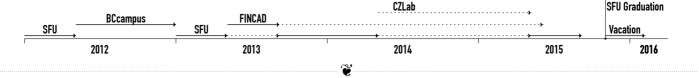
Aviall

2013–15 FINCAD

pcclarke.ca Patrick Clarke

Timeline

Full-time Part-time



Education

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

BA Economics, 2010 Simon Fraser University

Interactive Object Design

Sunset Sails, Speculative design course → Spring 2014

Responsibilities

Collaborated with city staff to design public installation of energy data Accessed natural gas API and connected data to Arduino board Constructed, wired, and coded physical prototypes that visualized data

Results

Presentation skills persuaded city staff that project design was feasible Physical prototype connected to live building data via API at showcase

Hexboards, Interaction design methods course → Spring 2012

Responsibilities

Learned about clients' needs, performing cultural probes and interviews Created posters to communicate research findings with clients & class Organized workshops to refine design using clients' input on prototypes

Results

Clients found design useful, improving group communication Lecturer described design as highly creative, appropriate for clients

Android Development

Benefit, Mobile app design course ↔ Fall 2013

Responsibilities

Designed interface through iterating wireframes and prototypes Implemented design in Java, and tested to support Android 2.3 and up Wrote methods to authenticate with OAuth 1.0a on Android

Volunteer History Re

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

Results

Functional prototype worked perfectly with user data App design called highly intuitive and simple to use

Public Speaking & Leadership

Club President, Burnaby Mountain Toastmasters → April 2009 - June 2010

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 welcome new members Promoted club on campus through advertising and publicity campaigns

Results

Grew membership from 10 to 30 people Went from no members with certificates, to nearly 10 Technologies used Adobe Illustrator InDesign

Photoshop Arduino (C) Processing (Java)

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Technologies used Adobe Illustrator InDesign SketchUp

Technologies used Android SDK Fitbit API (REST) Java