

DANIEL VASQUEZ

Software Engineer
& Technical Director

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PROFILE

- 4+ years designing & developing software for the visual effects (VFX) pipeline in feature film
- Strong engineering principles, and effective communication with the team and clients
- Eager to collaborate with teams solving problems in VFX, extended reality, and IoT+blockchain

SKILLS

Languages

- Python, Unix shell
- JavaScript, HTML
- C/C++, Java, Swift

Frameworks & Tools

- React, PyQt
- Firebase, npm/Yarn
- Redux, Node.js

2D/3D Applications

- Maya, Shotgun, RV
- ZBrush, Mari
- MeshLab, Houdini

WORK EXPERIENCE

Mar 2016 - Pipeline Technical Director
Jul 2018 *Scanline VFX, Vancouver*

- Developed pipeline tools and plugins to meet immediate and long-term VFX production demands
- Maintained a wide variety of existing workflows, plugins, scripts, front-end and back-end tools
- Improved the efficiency of asset setup, caching, viewing, and shot-data handoff between artist across the entire pipeline

May 2014 - Software Engineer
Aug 2015 *Moving Picture Company (MPC), Vancouver*

- SIGGRAPH 2015 Talk: "Roundshot Pipeline at MPC for Godzilla"
- Developed and supported large scale software tools in the visual effects pipeline
- Debugged tools for Artists and Technical Directors across multiple disciplines
- Communicated and collaborated with teams of developers and artists, locally and globally

Sept - Dec 2013 Software Developer
IBM, Victoria

- Interpreted UX designs in HTML, CSS and Javascript with high fidelity for social web application
- Wrote production quality, client-side code in Eclipse IDE and debugged using Chrome DevTools
- Built AJAX enabled custom widgets using Dojo Toolkit framework
- Learned the requisite web technologies while adhering to tight deadlines in an Agile process

May 2010 - Animator & Technical Artist
Apr 2016 *Heylight.com (freelance)*

- Create 3D content, visual effects, and animation for mobile apps or animated/live-action films
- Write software tools in Python or Javascript to streamline animation process
- Conceptualize and create visual media for science education, mechanism of action (MoA) renderings, and marketing
- Past clients include United Nations, Conquer Mobile, Tangible Interaction, Telus, and Nissan

- Jan 2009 - May 2010 **Animation Specialist**
Stemcell Technologies, Vancouver
- Conceptualized and created commercial and educational videos for marketing
 - Wrote scripts, developed storyboards, directed and lit live action content
 - Built and rendered 3D animation content; and composited, edited, and compressed videos
 - Programmed in MEL and simulated natural materials using nCloth

EDUCATION

Class of 2017 **Bachelor of Computer Science**
University of British Columbia, Vancouver

Class of 2006 **Bachelor of Science, Honours Biochemistry**
McMaster University, Hamilton

PERSONAL PROJECTS

- Jan 2019 - Present **Lyddy - Sound sharing social networking service**
www.lyddy.stream
- Developed a serverless web application in which users can follow other users and listen to, as well as “Like”, their posts
 - Built the serverless web application using Google Cloud APIs Firebase Database and Authentication
 - Designed backend data structures for social interactions such as “Follow/Unfollow”, and “Like/Unlike”

- Feb - Apr 2013 **WayFinder**
Java, Android SDK
- Collaborated with classmates in building an Android application that helps guide a user along a walking tour of points of interest on the UBC campus
 - Implemented several Java objects that read and parses data from XML, displaying user-defined paths in the GUI using the Android SDK, Flickr API, and RESTful architecture
 - Utilized Software Engineering practices such as version control, UML design, and JUnit testing

- Feb - Mar 2011 **Cache Cloud for Maya**
Python, Autodesk Maya
- Developed an I/O utility that creates Maya PDC binary files from a point-cloud sequence
 - Implemented a user-friendly GUI in MEL, allowing adjustments to import parameters
 - Included output file for logging import history

INTERESTS

- Learning about the latest developments in web technologies, biotech, and computer science
- Immersive interactivity, film, and animation as forms of storytelling
- Exploring new ways of presenting science in a public sphere
- Life drawing, playing guitar, tennis, swimming, hiking, and sailing