# **BRYSON LEE**

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# **EDUCATION**

#### Santa Clara University, B.S. Computer Science and Engineering

September 2014 - June 2018

SCU ACM SIGGRAPH President and Founder STEM National Science Foundation Scholar

Courses: Software Engineering, Computer Graphics Systems, 3D Animation/Modeling, Distributed Computing

## **EXPERTISE**

Tools Development, Production Pipelines, Computer Graphics Systems, Artist Workflows, Studio Technology

Languages Python, C++, C, JavaScript, HTML, CSS, SQL

Workflows / Platforms Linux (RHEL7 + Centos), Perforce, Git + (Github/Gitlab), JIRA

APIs / Frameworks PyQt/Qt, Django, Docker, Ansible, Google App Engine, AngularJS, Flask, Node.js

CG / Studio Tools RV, Maya, Houdini, OpenGL

Databases PostgreSQL, MySQL, OracleSQL, Google Datastore

# **EXPERIENCE**

#### Industrial Light and Magic (ILM / Lucasfilm) - Pipeline Engineer, Intern

June 2017 - September 2017

- As part of the global Pipeline Engineering department, built tools and created software for ILM's in-house render farm system, asset management infrastructure, media creation pipeline, and data transfer services
- Worked closely with Walt Disney Animation Studios in implementation of Coda and Dpix software for render queuing and media/review libraries, respectively
- Created core API service for automated global studio data transfer and remote VFX Supervisor platforms
- Led rearchitecture of ILM's core media player (RV); alongside Pipe TDs, created new plugin framework

#### Disney Interactive - Software Engineer, Intern

June 2016 - September 2016

- Within the Media Technology Engineering Team, created administrative tools for digital asset management, including video/image media + file metadata (Metrics, statistical analysis, database management)
- · Improved scalability of the asset manager through design of database helper functions
- Designed and implemented digital pipeline software to manage reindex and asset mapping for CMS and art production pipelines

#### Santa Clara University, 3D Animation and Modeling - Teaching Assistant

September 2016 - Present

 Taught Computer Graphics fundamentals and the 3D Modeling/Animation pipeline, including Maya and introductory technical direction

## Hoana Medical - Software Engineer, Intern

June 2015 - August 2015

- Engineered tool to analyze wireless data packages from sensory data and to detect anomalies
- Achieved 99% message integrity through checksum tool implementation
- Built medical monitoring mobile and web application that improved load times by 25% compared to the previous implementations with additional live-updating graphs

## **PROJECTS**

#### Pipeworks: Cloud-based Pipeline for Distributed Creative Content Collaboration

In Development

A cloud-based suite of software that will enable small to medium sized teams to bring their creative ideas into reality by providing a comprehensive yet modular set of tools to support a modern creative content pipeline.

Python (Server Scripting, Core API), PyQt 5, Web-based technologies (Django, Flask, Google Cloud Platform)

#### Disney Matterhorn Digital Asset Manager

Summer 2016

Web-based Image, video, and file manager for digital art assets. Built multiple administrative tools and interfaces for: video transcoding, metrics, diagnostics, meta data/legacy tracking, and indexing helper tools.

• Python, Flask, Google App Engine, Google Cloud Storage, Datastore API

# vcontrol: A Lightweight Version Control System for Digital Art Assets and Binary Data

January-March 2018

vcontrol is a CLI VCS that supports a simplified and lightweight platform allowing artists to stage local versions of art assets before committing them for review in an existing pipeline. Supports VCS commands including committing, reverting, branching, fetching, ect. for distributed version control and remote workflow support.

Python