BRYSON LEE

500 El Camino Real · Santa Clara CA 95053 brysonhlee@gmail.com · 808 391 5739 www.brysonlee.com

EDUCATION

Santa Clara University, B.S. Computer Science and Engineering CGPA 3.5

September 2014 - June 2018

SCU ACM SIGGRAPH President and Founder

Courses: Computer Graphics Systems, 3D Animation/Modeling, Software Engineering, Distributed Computing STEM National Science Foundation Scholarship

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, Google App Engine, AngularJS, jQuery, Node.js

Computer Graphics 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

Procedural Modeling Tools for Surrealist Art Style (Houdini, C++)

In Development

Disney Matterhorn Digital Asset Manager

Summer 2016

- Image, video, and file manager for art digital assets. Built multiple administrative tools and interfaces for: video transcoding, metrics and diagnostics, meta data tracking, legacy tracking, and indexing helper tools
- Python, Flask, Google App Engine, Google Cloud Storage, Datastore API

Cubic Lattice Constructs for Better Volumetric Pre-Visualizations

In Development

- This method creates a lossy optimization for volumetric simulations by building a cubic lattice in a 3D space, and providing a better pre-visualization.
- C++

Distributed Creative Content Collaboration Platform (Senior Thesis)

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), C++ (Qt), Web-based technologies (Django, Google App Engine)