Serena Pascual

serenapascual.com
serena.a.pascual@gmail.com

Experience

Dell EMC, Software Engineer I
July 2019–July 2020, Santa Clara, CA

- Developed and maintained C code base for Data Domain backup appliances on RAID team
- Performed bug fixes in Storage Management System utilities on proprietary Unix-based operating system
- Wrote low-level unit tests and implemented code coverage tracking routine to improve ease of detecting regression

Proofpoint, Software Engineering Intern
June 2018–August 2018, Sunnyvale, CA

- Wrote and deployed Python CLI tool to poll real-time data and detect anomalies for improved incident response time
- Developed micro-service on Java platform to configure and transmit specified internal events between data centers

Projects

southsista
- Implemented Boids-style flocking simulation in three.js
- Modeled and animated scene programmatically for optimal web performance

ice-cream-social
- Designed and coded static website for emerging non-profit
- Created assets with SVG, Adobe Illustrator and After Effects, and Lottie

Interactive Ray Tracing Renderer
- Developed C++ 3D renderer using openFrameworks toolkit
- Implemented anti-aliasing algorithm, planar projection texture mapping, and configurable lighting and geometries

Dunder Mifflin Online Warehouse
- Built full-stack retail web application in team of five using Angular, Flask, and MySQL
- Contributed to system design, database schemas, frontend UX, backend functionality, Google Maps component

Education

San José State University
BS Computer Science, Music Minor
Graduated May 2019

Coursework
Algorithm Design and Analysis,
Mobile Device Development,
Computer Graphics Algorithms,
Music Information Retrieval,
Electro-Acoustics,
Sound Recording

Skills

Programming
Java, Python, C++, JavaScript, C, HTML, CSS

Tools and Frameworks
React, three.js, openFrameworks, Git, Perforce, Bash, Jira

Multimedia
Adobe Creative Cloud, Logic Pro, Blender, Figma

Links

Github   serenapascual
LinkedIn   in/serenapascual