

## Experience

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### **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 application to detect real-time data anomalies and improve incident response time
- Developed micro-service on Java platform to configure and transmit specified internal events between data centers

## Projects

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### **mechmarket**

- Building mobile app in Swift to improve user experience of trade amongst mechanical keyboard enthusiasts
- Utilizing OAuth authentication, iOS Keychain storage, and queries to Reddit API

### **ice-cream-social**

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

### **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, front-end UX, backend functionality, Google Maps component

### **Interactive Ray Tracing Renderer**

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

## Education

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### **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

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### **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

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**Github**      serenapascual  
**LinkedIn**    in/serenapascual