**Daniel Louie**

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**objective**

Currently seeking an entry-level software development engineering position.

**education**

**Santa Clara University,** Santa Clara, CA

**B.S. in Computer Science and Engineering,** Jun 2026

* GPA: 3.85

**projects**

**Electric Bikes**

* Rebuilt and upgraded previously non-functional electric moped and scooter to 1000W motors capable of 45 mph
* Created electric mountain bike with custom motor controller and programmed 5 levels of pedal-assist

**Tazer Tag**

* Created Laser Tag vests/toy guns with 16 levels of electric shock arm and leg bands

**Morse Code Translator App**

* Designed and coded an app for users to communicate in Morse code in 3 different modes (text, light, sound)
* Built computer vision ML model to recognize Morse code using CoreML and Roboflow on custom dataset of 300 images

**experience**

**Student in Machine Learning Specialization Course**

*DeepLearning.AI and Stanford Online,* Online Jul 2022 - Present

* Built ML models with NumPy & scikit-learn for prediction & binary classification tasks (linear, logistic regression)

**Creator and Instructor of iOS App Development Course**

*Menlo School,* Menlo Park, California Sep 2021 - Jun 2022

* Co-created and TA'ed mobile app development class in Swift with professor
* Completed Apple's Develop in Swift course and coded multiple apps in Swift using XCode

**Coding Instructor for Underprivileged Students**

*Peninsula Bridge,* San Mateo, California Jun 2021 - Jun 2021

* Taught an introductory Python class to middle school students using Codecademy

**skills**

* Programming: Java, Python, Swift, XCode, Github
* Softwares: After Effects, Premiere Pro, Photoshop, Apple Final Cut Pro
* CAD: Fusion360, OpenSCAD, TinkerCAD
* Engineering: soldering, 3D printing, laser cutting, welding, wood and metal working

**activities**

* Raised 5 dogs for service dog organization, Canine Companions (2012-present)
* Volunteered on service trip in Ghana (June 2022)
* Volunteered on marine conservation service trip in Belize (July 2019)
* Soccer: Captain of Varsity HS team (3x league champions), playedr in National Premier League (2018 champions)
* Track & Field: Varsity athlete (2x league champions)
* Cross Country: Varsity athlete (1x league champions)