

CALVIN SIMRAN RAI

Front-End & Mobile Application Developer

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EDUCATION

React Developer Nanodegree

December 2018 | Udacity

Front End Developer Nanodegree

October 2018 | Udacity

Android Basics Nanodegree

October 2018 | Udacity

M.S. Structural Engineering

March 2017 | UC San Diego | 3.65 GPA

B.S. Civil Engineering

June 2015 | Cal Poly Pomona | 3.65 GPA



SKILLS

| | |
|----------------|--------------------|
| React / Redux | Java |
| React Native | Android Studio |
| JavaScript ES6 | Visual Studio Code |
| HTML / CSS | Gravit Designer |
| Git / GitHub | MATLAB |
| Jasmine | C# / .NET |
| Python | Trimble SketchUp |



COURSES

Java Programming
C# Software Programming I
Intro to Programming Nanodegree
Visual Basic Programming
Principles of Information Systems
Calculus for Engineers I, II, & III
Matrix & Linear Algebra
Multivariable Vector Calculus
Physics for Scientists & Engineers I, II, & III
Vector Statics & Vector Dynamics



PROJECTS

Sep 2018 Kyoto Explore Neighborhood Map React App

A React app utilizing the Google Maps and Foursquare API's to showcase a list of sights in Kyoto, Japan. This was the final project for the Front End Developer Nanodegree from Udacity.

Aug 2016 4-Story Modal Analysis Android App

Designed and deployed a single-screen application for civil/structural engineering students to study structural dynamics utilizing the JAMA matrix library and GraphView graphing library.

May 2012 to Simmy Sigma

Current

A personal YouTube project consisting of various engineering, educational, and programming topics. 26,000+ subscribers and over 4 million views.

Sep 2016 to MATLAB Composite Analysis Laminate Code

Dec 2016

Developed a scripting program to analyze the elasticity, strength, and failure predictions of a composite laminate material incorporating stress analysis and transformations.



EXPERIENCE

Apr 2017 to Structural Designer I / LPA, Inc.

Mar 2018

Responsible for computational analysis & structural design of K-12 schools, corporate complexes, & other structures in collaboration with LPA Architects Graphic, & Interior Designers.

Jan 2016 to Structural Engineering Department Grader / UC San Diego

Mar 2017

Graded for two undergraduate senior capstone projects and a MATLAB programming course. Mentored coding lab sessions. Head Grader for an Introduction to Structural Engineering course.



LEADERSHIP

Sep 2014 to Soccer Stadium Design Project Manager / Cal Poly Pomona

Jun 2015

- Managed 3 sub-teams (16 members) to analyze and design a 20,000-seat pre-cast concrete soccer stadium
- Oversaw entire design, task delegation, & presentations
- Project was chosen by the department to be presented at the CEMA Banquet, Engineering Symposium, & Project Showcase