CALVIN SIMRAN RAI

Mobile & Front End Developer & Designer

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EDUCATION

Front End Developer Nanodegree
September 2018 | Udacity

Android Basics Nanodegree
August 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

HTML / CSS	Java
JavaScript	Android Studio
Git / GitHub	Visual Studio Code
Atom Editor	Gravit Designer
Markdown	MATLAB
Python	C# / .NET
AutoCAD 3D	Trimble SketchUp

COURSES

Java Programming

C# Software Programming I

Intro to Programming Nanodegree

Visual Basic Programming

Princicples 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

August 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 Current — **Simmy Sigma**

A personal YouTube project consisting of various engineering, educational, and programming topics. 25,000+ subscribers and over 4 million views.

EXPERIENCE

April 2017 to March 2018 — **Structural Designer I / LPA, Inc.**

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

January 2016 to March 2017 — **Structural Engineering Department Grader / UC San Diego**

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

September 2014 to June 2015 — **Soccer Stadium Design Project Manager / Cal Poly Pomona**

- Managed 3 sub-teams (16 members) to design a 20,000-seat pre-cast concrete soccer stadium and assist in all structural analysis & design
- Oversaw preliminary and final design, prepared team tasks, meetings, & presentations
- Project was chosen by the department to be presented at the CEMA Banquet, Engineering Symposium, & Project Showcase

2018 — Grow with Google Developer Scholarship | Udacity

2015 — Kellogg Undergraduate Scholars $1000 Research Scholarship

2010 — John "Brown" Sandoval Music Scholarship Award