

# Shriram Natarajan

shriram7nsr@gmail.com

Mobile: +1 236-863-0876

LinkedIn: **Shriram Natarajan**

Vancouver, BC

## Education

SEP 2019 - DEC 2020

Master of Engineering

Civil Engineering

**The University of British Columbia**

Graduated in Structural and Earthquake Engineering with extensive knowledge on the seismic response, seismic design of concrete, masonry, steel, and wood structures and their design codes

SEP 2015 - APR 2019

Bachelor of Engineering

Civil Engineering

**PSG College of Technology, India**

## Skills

**Design Tools :** ETABS, SAP2000, Perform-3D, S-Concrete, SAFE, RISA-3D, Abaqus AutoCAD, Revit

**Others :** Microsoft Office Suite Teamwork, Time Management Quick learning, Multi-tasking

**Technical Knowledge :**

Structural Modeling

Nonlinear Analysis

Seismic Design

Project Management

Wood Design

Reinforced Concrete Design

Steel Design

Construction Review

Planning and Drafting

## Professional Development

**Seismic Strengthening**

SEABC

Jan-Apr 2020

**Project Planning and Control**

Indian Institute of Technology

Jul-Sep 2017

**AutoCAD**

CADD Centre

Jul-Sep 2016

## Experience

JAN'21-PRESENT **Structural EIT**

**HPC Designs Inc., Vancouver**

- Carried out detailed review of Risa 3D models developed for response spectrum analysis of an offshore conveyor structure
- Built the model in SAP2000 incorporating the Soil-Structure Interaction in Liquefied state and performed Nonlinear time history analysis
- Assessed the force and displacement demands in critical elements due to the applied seismic motions for design verification purposes and proposed changes
- Analysed the behaviour of pile foundations by checking the strain demands in the member due to the earthquake
- Currently involved in Performance based design of a high-rise building using Perform-3D and in developing and maintaining files for peer review process

AUG-DEC'20 **Research Assistant**

**The University of British Columbia**

- Developed recommendations for modeling shear walls in Etabs and validated them by checking the performance of a real-time building under earthquakes -guided by Dr.Armin Bebamzadeh
- Grasped the intricacies involved in computer modeling by conducting different sensitivity analyses and honed my problem-solving and multi-tasking skills

APR-JUL'18 **Engineering Intern**

**Aswin Constructions, India**

- Ensured the progress of work and their conformity to site drawings by performing onsite survey and regular site inspections
- Involved in regular meetings with the client, Engineers, and Drafters to ensure successful and smooth completion of the project

## Projects

SEP-DEC'20 **Design of Masonry Structure**

**UBC**

- Took this as an additional course to have versatility in design and to prepare me for working in a deadline-driven environment
- Performed hand calculations to design a 6-story masonry building and also carried out design checks of team member's work effectively

JAN-APR'20 **Nonlinear seismic analysis of a high-rise building**

**UBC**

- Modeled a 30-story building in Etabs and performed linear-static and response spectrum analyses in accordance with NBCC 2015
- Created fiber sections and shear hinges to capture the nonlinearity and carried out Pushover and Time history analyses
- Obtained working knowledge of CSA 23.3, LATBSDC and checked the shear, rotation, drift and strain demands under ground motions

## Awards and Honors

JUN'16-APR'18 **Global Leadership Forum**

**Organizer**

Exhibited excellent leadership and communication skills by liaising with the guest speakers, professors and my team

Nov '17 **Design Forum Award**

**Department of Civil Engineering**

Secured the top place in an inter-college design competition for displaying finesse in AutoCAD drawings and report writing