

# Shriram Varadarajan

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*Structural Engineering Graduate*

I'm a structural engineering graduate with a Master's degree from Australia, focused on analysis and design using ETABS, SAP2000, and Revit. I enjoy working through real structural problems — modelling frames, checking load paths, and making sure everything holds up to code.

## Tools & Skills

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- **Analysis & Modelling:** ETABS, SAP2000, Staad-Pro, MicroStran
- **Design & Drafting:** Revit, AutoCAD, Civil 3D
- **Codes:** AS3600, AS4100, AS5100, AS1720.1, AUSTRROADS, AASHTO

## Projects

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### **3D RC Building Model – ETABS**

Built a 3D finite element model of a multi-storey reinforced concrete building. Modelled columns, beams, slabs, and stairs on a grid layout to study load paths and structural behaviour under gravity and lateral loads. Completed the Udemy ETABS Structural Analysis course alongside this project.

### **Steel Portal Frame – SAP2000** (*Ongoing*)

Modelling a steel portal frame in SAP2000 — currently working through member sizing, gravity and lateral load application, and load path verification.

### **Residential BIM Model – Revit** (*Ongoing*)

Building a multi-storey residential model in Revit, covering structural layout, floor systems, and coordinated documentation.

## Certifications

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- ETABS Structural Analysis – Udemy
- Revit BIM Modelling – Ongoing
- SAP2000 – College-level training