

ANIRUDHA AGARA

Computational Designer

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SUMMARY

I specialise in advanced 3D and parametric modelling, computer programming, and product development within the Computational Design and Automation team. My role involves custom digital tool development, algorithm development and rapid prototyping.

I thrive at the intersection of Engineering, Analysis, and Code, seeking to streamline processes while exploring innovative scalable solutions.

EXPERIENCE

Computational designer | Software

PT Blink tech, Sydney

📅 02/2022 - Present 📍 Sydney

Developing SaaS platform development for modular building components. Leading algorithm creation, parametric design, and seamless web integration with structural software. Contributing at UI/UX and overall product development.

Casual Academic

The University of Sydney

📅 2023 - Present 📍 Sydney

Algorithmic Architecture

Computational designer | Architect

ShapeDiver | ARPM, Vienna

📅 2020 - 2021 📍 Vienna

Crafting parametric scripts for cloud applications and online workflows, transforming designs into optimized meshes with Rhino/Gha and third-party APIs. Developing customized BIM workflows using Grasshopper and C#. Generating computationally designed drawings for manufacturing and assembly.

Computational design consultant

Rat[Lab], (Remote)

📅 2020 - 2021 📍 Remote

Remote computational consultant, contributed in research and development of computational toolkit (grasshopper script + plugin devp.) for design and analysis of stadiums.

Architect

JDS Architects, Copenhagen

📅 2020 - 2019 📍 Copenhagen

Works with Julien De Smedt include intensive conceptualization, designing and detailing process of building and their iterations. (Competitions and commissions)

Architecture assistant

Vastu Shilpa Consultants, Ahmedabad | Sangath

📅 2018 - 2017 📍 Ahmedabad

Internship with 2018 pritzker laureate B.V.Doshi. Parametric model for 3d printed shell dome for Nalanda library (in collaboration with ICD Stuttgart) , GFC drawings for Flame university and IIM Udaipur.

EDUCATION

Masters of Architecture

University of Sydney

📅 2020 - 2021

Bachelors of Architecture

Brick School of Architecture, Pune

📅 2014 - 2012

SKILLS

Visual Scripting

Grasshopper

rhino.compute /Api

ladybug tools

Custom plugin devp.

Omniverse

Unity

Programming

Python

C#

Three.js

Html | CSS

Visual studio

Github

Mocelling Softwares

Rhino3D

Archicad

Autocad

Blender

sketchup

Research interest

Web development

Spatial data science

Computer vision

UI | UX

ACHIEVEMENTS

Dean's Award Graduation Studio

University of Sydney

Annual NASA Design competition

National Winner