

Devang Chauhan


"I enjoy developing tools and work-flows that capture human intelligence."




✉ devang@outlook.in
☎ 437 244 4016
🔗 devang.io
🌐 devangchauhan
📍 Toronto

Education

Master in Environmental Building Design

UPenn, USA  Sep.12 - Aug.13
Building Science, Energy modeling, Daylighting, CFD,
Performance simulation, Research, **GPA 3.73/4.0**

Bachelor in Architecture

The M.S. University of Baroda  Jul.05 - Jul.10
Architecture & Building Construction. Graduated top of the
class. **Five awards** for performance. **Gold Medalist**

Certificates

BPAC

Autodesk

6.00.2X

MITX

LEED Green Associate

GBCI

IGBC AP

IGBC

6.00.1X

MITX

CFD

Autodesk

LinkedIn

For full list

Skills

Ladybug

Honeybee

Butterfly

Climate Studio

Revit + Insight

Rhinoceros + Gh

Sketchup

AutoCAD

Design Builder

eQuest

Python

HTML + CSS

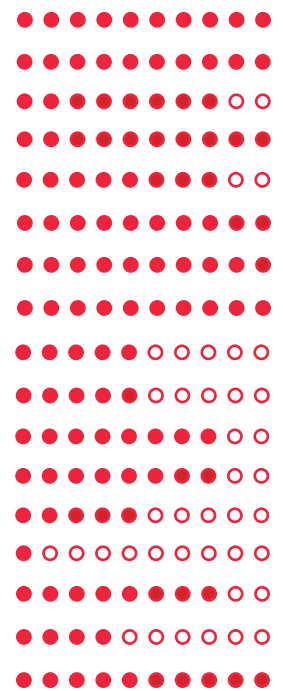
Javascript

Tableau

Photoshop

Illustrator

InDesign



Awards

Gold medal The M.S. University of Baroda
For the best academic performance

Gold medal The M.S. University of Baroda
For the best performance in architectural design

Gold medal The M.S. University of Baroda
For the best performance in design thesis

Silver Medal The Institution of Engineers, India
For the highest score in civil engineering exam

Excellence Award Pidilite Industries Limited
For excellence in architectural studies

Research & Development

Developer

Canada  Mar.20 - Present
Working towards capturing LEED into an algorithm

Academic Research

UPenn, USA  Sep.02 - Aug.13
Quantification of hear gain / loss from a building envelope
Sustainability - A Business Paradigm
Disparities between Design-Build and Design-Bid-Build

Work Samples

Please visit **devang.io** or click here to view the samples of work

Interests

Software development
Web development
Content development
Product development

Daylighting
Energy Modeling
CFD
Comfort Modeling
Automation

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🛠 Experience

Sustainable Design Specialist & Computational Design Leader [Full-time]

HOK, Toronto

📅 Jan.20 - Present

- Developing a serverless dynamic content loading web platform to share and host workflows at HOK
- Creating workflows, tools, and content for design analytics
- Helping teams analyze the performance of their designs using latest building performance simulation tools such as Ladybug suite & Climate studio
- Responsible for setting sustainability scope for HOK projects in Canada

Senior Engineer in Global Sustainability [Full-time]

Khatib & Alami, Bangalore Design Centre

📅 Mar.18 - Dec.19

- Developed compliance documentation for LEED V4, Estidama, and Dubai municipality regulations [DMGBR]
- Conducted parametric performance simulations using Rhino Grasshopper + Ladybug Tools and Revit + Insight
- Conducted daylight analysis for several projects
- Conducted airflow studies to measure local wind velocities at site using computational fluid dynamic (CFD) simulations
- Conducted measurement of universal thermal climate index (UTCI) and Predicted Mean Vote (PMV) for human thermal comfort
- Tutorials and content development for the team
- Prepared conceptual energy models for design stage energy consumption estimation and passive savings potential
- Performed technical review of architectural design proposals for their compliance with the LEED V4, Estidama, and Dubai municipality regulations
- Provided sustainability analysis to the project bid presentations

Tool Developer & Contributor [Pro Bono Remote Work]

Ladybug Analysis Tools, USA

📅 Sep.16 - Present

- Implemented non-convex checking capability to the Honeybee legacy library
- Implemented Beaufort scale and added several capabilities to the original wind-rose component
- Fixed bugs in legacy and [+] versions of Ladybug and Honeybee and contributed to the code base using Python Programming
- One of the top contributors in terms of user support on forum

Senior Architect [Full-time]

Mamta Shah & Associates, India

📅 Jan.14 - Feb.18

- Performed Climate analysis, solar studies and daylight analysis for several projects using Rhino Grasshopper + Ladybug Tools
- Developed the company website
- Developed internal company website and a series of web tools using Python and Javascript
- Reduced time for quality check by about 65% using the internal company website and the web tools
- Was responsible for the Designing, planning, and execution of large-scale high-rise residential gated communities
- Co-ordinated with mechanical, electrical, plumbing, fire-fighting engineers for technical accuracy of project deliverables
- Provided technical review and inspection of deliverables by the junior staff and corresponding engineers
- Provided mentoring and was responsible for the skill development of the junior staff
- Conducted recruitment of staff and monitored their performance
- Maintained regular correspondence with clients and engineers for preparation of technical project bids and reports
- Developed and implemented of project specific and general quality standards for technical project deliverables
- Aided senior management in the development of policies for maintaining efficient work-flows

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🏢 Experience

Architect [Full-time]

SamARCH Architects, India

- Developed of technical good for construction drawings for various projects
- Performed technical review of the work of the interns and the CAD operators

📅 Sep.10 - May.12

Intern [Full-time]

Anand Patel & Associates, India

- Developed design drawings for various architecture projects
- Supported senior architects in the development of technical good for construction drawings

📅 Jul.08 - Nov.08