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🌐 <https://sabaseddigh.github.io/>

Summary

Saba is a creative architect, having over 7 years of professional experience on various building types and scales. She has a multifaceted background in computational design, innovative shelter design, and sustainability studies. Proficiency in architectural design programs paired with coding skills allows her to develop innovative solutions for the built environment. Her main research interest lies at the intersection of sustainability, computational design, and artificial intelligence.

Education

[Deylaman Institute of Higher Education](#)

[Guilan, Iran](#)

Master of Science in Architecture

Sep 2017 - 2022

- GPA: 4.0/4.0
- Thesis title: Designing a Convention Center with an Approach to the Recognition of Sense of Place (Case Study: 6th District of Tehran Municipality)

[Deylaman Institute of Higher Education](#)

[Guilan, Iran](#)

Bachelor of Science in Architecture

Sep 2013 - 2017

- GPA: 3.76/4.0

Research Interests

- Computational Design
- Artificial Intelligence
- Building Information Modeling
- Energy Efficiency
- Sustainability
- Cognitive Science

Research Experience

“How Can AI and Machine Learning Be Applied To Optimize Energy Efficiency and Minimize Waste in Architectural Design?” In progress

“Analysis of Traffic and Social Interactions Following the Construction of a Pedestrian Zone in Rasht (Shik Street)” (In Persian), [Deylaman Institute of Higher Education](#) Apr 2018

“Post-Disaster Temporary Shelter Design” (In Persian), Bachelor's Thesis, [Deylaman Institute of Higher Education](#), Accepted by *National Disaster Management Organization of Iran* Nov 2017

Notable Work Experience

Architectural Designer/Researcher | Tose'e Shomal Company

Guilan, Iran

Vidar Residential Complex

Nov 2019 - Jun 2021

- Collaborated closely with client to understand their needs for a vast 40-building sustainable residential site development.
- Conducted comprehensive analyses and research, including site analysis, building performance analysis, and sustainability studies.
- Visualized analytical findings into reports and presentations to enable productive discussions with stakeholders to align on project goals.
- Designed expansive eco-friendly residential complex optimized for performance and modern aesthetics.
- *Technical Skills:* Autodesk AutoCAD, Revit, Lumion, BSPsim (Local Building Performance Simulator), ARC

Architectural Designer | Tose'e Shomal Company

Guilan, Iran

Sepidar Residential Complex

Oct 2018 - Nov 2019

- Led conceptual design including programming, massing studies and schematics for upscale residential development on a man-made wooden island
- Advised on innovative wooden structures and habitat rehabilitation interventions and applied expertise in biophilic design to integrate the architecture with the natural wetland ecosystem.
- Skillfully managed a multidisciplinary team to create optimized master plan and building designs.
- Designed island, buildings, landscapes integrating biophilic strategies to meet projects's goals.
- *Technical Skills:* Lumion, Autodesk 3ds Max, AutoCAD, Revit, Adobe InDesign

Certificates

Courses:

Computational Thinking for Problem Solving - University of Pennsylvania (Coursera)	Aug 2023
Get Started with Python - Google (Coursera)	Aug 2023
Greening the Economy: Sustainable Cities - Lund University (Coursera)	Jul 2023
ASHRAE 209: Discussing Process, Standards & Integration - HEAPY (GBCI)	Jun 2023
Introduction to EDGE - Green Business Certification Inc. (GBCI)	May 2023

Workshops:

GPRO Operations & Maintenance - Urban Green Council	Jul 2023
Responsive Web Development - SheCodes	Jun 2023
Green Buildings & Preparation for LEED Examination - Hampton University (IDO Academy)	May 2023
Web Development - SheCodes Plus	Apr 2023
Introduction to Coding - SheCodes Basics	Mar 2023

Webinars:

Machine Learning Fundamentals - Xaltius Academy	Aug 2023
Next Gen Design Innovation: Lab & Research Facilities of the Future - Illinois Green Alliance	Jul 2023
Emerging Technologies for Emerging Problems - University of Tehran	Dec 2022

Honors and Awards

- Ranked 2nd among graduates in Master's program, *Deylaman Institute of Higher Education* 2022
 - Awarded highly competitive academic scholarship for 2 consecutive terms in recognition of being a top-ranked student in Master's program, *Deylaman Institute of Higher Education* 2018
 - Awarded grant to construct prototypes based on original research on Post-Disaster Temporary Shelter Design, *Iranian Research Organization for Science and Technology* 2017
 - Ranked in the top 10% of Bachelor's program class, *Deylaman Institute of Higher Education* 2017
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Skills

- **Design** | Autodesk Revit, Autodesk AutoCAD, Lumion, SketchUp, Adobe Photoshop, Figma, Adobe Indesign, InVision Studio
 - **Programming** | Python, NumPy, Pandas, PyTorch, C#, C++, Unity, JavaScript, HTML, CSS, React.js, Bootstrap, Flexbox, GitHub, SEO
 - **Sustainability Analysis** | Arc Skor, EDGE, EnergyStar Portfolio Manager, Sefaira, BSPsim, Open-Studio
 - **Data Visualization & Analysis** | LaTeX (Overleaf), Microsoft Office
 - **General** | Time Management, Teamwork, Problem-Solving, Collaboration, Communication, Sketching
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Languages

- **Persian** Native (Mother Tongue)
 - **English** Professional Proficiency
 - **French** Elementary Proficiency
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Hobbies

Plant Cultivation, Programming, Art, Photography, Game Development, Cooking