

# SOROUSH PIRI

## PROFESSIONAL SUMMARY

I am a committed researcher specializing in enhancing construction safety assessments to ensure workers' well-being and structures' integrity. My expertise revolves around crafting intuitive and intelligent software solutions, encompassing extensive data analysis, artificial intelligence, machine learning, and data visualization.

## EDUCATION

**Southern Illinois University Carbondale**, Carbondale, IL  
**Master of Science**, Architecture, 05/2023  
• 3.6/4 GPA

**Tehran Azad University**, Tehran, Iran  
**Bachelor of Science**, Architecture, 01/2020  
• 3.3/4 GPA

## SOFT SKILLS

- Time Management
- Organization and Prioritization
- Team Collaboration
- Site and Environmental Analysis
- Strong Conceptual and Schematic Design Skills
- Punctuality
- Analytical and Creative Thinking
- Ability to manage Large Projects
- Data Management
- Strong Verbal and Written Communication Skills
- Problem-solving

## HARD SKILLS

- Revit
- Rhino 3D
- Grasshopper
- 3D Max
- Adobe Photoshop
- Adobe Illustrator
- Adobe Indesign
- Adobe Autocad
- Python
- R
- Microsoft Office

## FIELDS OF INTERESTS

- Intelligent Safety Assessment Models In Construction
- Human-Centric Safety Solutions In Construction
- Safety in Emerging Technologies In Construction
- Interactive Decision Support Systems In Construction
- Data-Driven Safety Planning in Construction

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## WORK HISTORY

### ARCHITECTURAL DESIGNER 01/2020 to 01/2021

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- Completed building permit applications and adhered to deadlines. Thoroughly researched materials and structures while collaborating with vendors to find solutions.
- Performed site surveys.
- Monitored design processes from the conceptual phase through construction.
- Meeting the client and assessing their preferences and needs.
- Prepared building specifications based on local regulations and codes.
- Helped in form-finding processes and concept designs.

### PARAMETRIC DESIGNER 01/2020 to 12/2020

#### Freelance

- Designing a model based on the swarm intelligence of phsarealm
- Mesh relaxation
- Importing sound to geometry
- Flexible structure
- Deployable Table
- Parametric Earrings
- Parametric Ring

### ARCHITECTURAL DESIGNER 12/2015 to 12/2020

#### Shayestegan, Tehran, Iran

- Researched building codes and properly applied them to designs.
- Integrated sustainable design solutions into projects.
- Prepared detailed fee estimates used to coordinate with architect-engineering firms for design services.
- Attended team meetings to resolve technical and project issues and review project schedules.
- Created graphic renderings and models using Rhino, 3Dmax and Illustrator.
- Consulted with clients to determine functional and spatial requirements of new structure.
- Maintained quality control standards and procedures for accurate and precise measurements, illustrations and documentation.
- Coordinated with cross-functional teams to improve structure sustainability and design.
- Worked closely with multi-disciplinary team to design residential and commercial projects.
- Advised clients on issues and options negatively affecting completion dates and suggested ways to keep project under budget.
- Performed site surveys.
- Demonstrated leadership by making improvements to work processes and helping to train others.

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## COMPETITION PROJECTS

- ADIL Office Building

- Iranian Bazar for Alvand
- Responsive Architecture

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## ACADEMIC PROJECTS

### **M.Arch: Southern Illinois University at Carbondale**

- M.Arch Thesis: Master Planning for Mixed-used development: Integrated Healthy and Energy Efficient Built Environment
- Regional Studio: How to Solve Homelessness in Paris?
- Regional Studio: Community Center
- ISIO(Integrative Sentiment Analysis app): Research Assistant
- Trivironment: Comprehensive Design Studio: Master Planning at Chicago

### **B.S in Architecture: Tehran Azad University**

- B.S Thesis: Performing Art Center
- Residential Tower
- Sport Complex
- Mod museum
- Modern Dormitory

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## RESEARCH ASSISTANT

### **Urban Intelligence & Integrity Lab**

- Provide consulting to clients and faculty with design and analysis of research topics, including predictive modeling and experimental designs.
- Develop and recommend appropriate statistical methods for data collection and analysis.
- Design and deploy R Shiny applications that incorporate the entire data continuum from fetching raw data from relational databases (or websites) to cleaning, analysis, and visualizations for end users.
- Develop content and present at internal and external industry conferences.

### **Covid-19 Project**

- Evaluated occupant feedback on the quality of the indoor environment using NLP .
- Automated data collection from Twitter via data pipelines.

### **Platform Upgrade and Code Conversion**

- Converted legacy SQL and SAS codes to R.
- Updated Access database to a SQL-based system.

### **Smart Cities**

- Used software exercises and repetition to assist students in learning foundational educational concepts.
- Worked closely with team members to deliver project requirements, develop solutions, and meet deadlines.

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## TECHNICAL SPEAKER

- web-based application for capturing public opinion form Twitter

- Instructor of an Interactive web-based application for capturing public opinion from Twitter at SIMAUD 2022(San Deigo)

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## **HONORS AND AWARDS**

### **Simpusium On Simulation for Architecture and Urban Design (SIMAUD) - Workshop**

- IntegrativeSentiment.io (iS.io) (ver. 1.0) A Web-based Interactive Tool for Modeling Human Feedback on Big Data

### **ARCC International Conference in Dallas - Accepted Paper**

- Evaluating Occupant Feedback on Indoor Air Quality During the Covid-19 Stay-at-home Based on Sentiment Analysis and Using Twitter Data