

THULASI RAM KHAMMA LEED AP BD+C

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611 Lorado Taft Dr,

Champaign, Illinois 61820

ENERGY & DATA ANALYTICS PROFESSIONAL

- Deeply engaged in developing data-driven energy solutions through data analytics and machine learning.
 - Strong background in Data Science, Energy and Sustainability principles.
 - Hands-on experience in optimizing Real estate operational expenses by improving energy efficiency
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PROFESSIONAL EXPERIENCE

JPMORGAN CHASE

New York

Global Real Estate Intern - 2018 Environmental Defense Fund (EDF) Climate Corps Fellow

June - August 2018

- Evaluated behavior of prices at several wholesale electricity hubs in the United States to support firm's decision-making on energy procurement strategies and contracts.

JPMORGAN CHASE

New York

Global Real Estate Intern - 2017 EDF Climate Corps Fellow

June - Aug 2017

- Developed tools and methodologies to evaluate the technical and financial feasibility of On-site Renewable energy installations.
- Developed a financial modeling tool which receives the calculated system sizes as inputs and forecasts the economic and environmental impact of the project
- Evaluated energy efficiency potential of the commercial portfolio using advanced data analytics.

ZELLER REALTY GROUP

Chicago

Building Energy Data Analytics - 2016 EDF Climate Corps Fellow

May - August 2016

- Analyzed Energy Interval Datasets using data analytics to detect faults in building energy consumption across the portfolio of 14 tall office buildings and identified energy efficiency strategies that could optimize operation and maintenance costs and reduce Carbon Emissions.
- Identified overall energy and cost savings of 1 Million kWh / \$100,000 per year respectively

SMART ENERGY DESIGN ASSISTANCE CENTER

Champaign

Building Energy Specialist

May 2013 - May 2015

- Involved in preparing building energy audit and retro-commissioning projects
 - Project leader for 15 educational and industrial projects; team member for more than 10 projects
 - Performed data analytics to identify faults in energy consumption and energy-efficiency opportunities
 - Identified measures to improve building energy efficiency on an average of 25% for all the projects
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EDUCATION AND REGISTRATIONS

- **PhD candidate in Architecture Technology** 2019 (Expected)
University of Illinois at Urbana-Champaign GPA: 3.99 / 4.00
 - **Master of Science in Statistics** May 2018
University of Illinois at Urbana-Champaign GPA: 4.00 / 4.00
 - **Master of Architecture** May 2013
University of Illinois at Urbana-Champaign GPA: 3.71 / 4.00
 - **Bachelors in Architecture** May 2010
Birla Institute of Technology Ranchi, India
 - **Certificate in Business**, University of Illinois at Urbana-Champaign April 2013
 - **LEED Accredited Professional** June 2015 - Present
 - **Registered Architect**, Council of Architecture (COA), India Jan 2011 - Present
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RESEARCH PUBLICATIONS

- Boubekri, Mohamed, Nastaran Shishegar, and Thulasi R. Khamma. "Sustainability with Health in Mind: A Case for Daylighting.", The International Journal of the Constructed Environment, Volume 8, Issue 2, pp.1-13. Article: Print (Spiral Bound). Published online: October 18, 2016
- Khamma, Thulasi Ram, and Mohamed Boubekri. "Statistical Analysis of Impact of Building Morphology and Orientation on Its Energy Performance." Journal of Engineering and Architecture, 2017. <https://doi.org/10.15640/jea.v5n1a2>.

CONFERENCE PRESENTATIONS

- ASHRAE & IBPSA-USA SimBuild 2016: Building Performance Modeling Conference August 2016
Thulasi Ram Khamma & Mohamed Boubekri
 1. A Review: Use of Data Mining Techniques to Detect Anomalies in Building Energy Consumption
 2. Statistical Analysis of Impact of Building Morphology and Orientation on Its Energy Performance
- ENTECH 2016: IV International Energy Technologies Conference, Dubai (in Absentia) Dec 2016
Thulasi Ram Khamma & Mohamed Boubekri
 1. Models to measure the impact of building morphology on its energy performance
- ECRES 2016: VI European Conference on Renewable Energy Systems (in Absentia) June 2018
Thulasi Ram Khamma & Mohamed Boubekri
 1. The Impact of Building Morphology on Energy Performance
- ASHRAE & IBPSA-USA 2018 Building Performance Analysis Conference and SimBuild Sept 2018
Thulasi Ram Khamma, Yuming Zhang, Stephane Guerrier & Mohamed Boubekri
 1. Statistical Framework for Energy Prediction in Office Buildings

SKILLS

- **Programming languages & databases:** Unix Shell scripting, Python, R, SQL, Hadoop, Hive & Pig
- **Statistical Modeling and Visualization Tools:** SAS, Spotfire & MS Excel
- **Software skills:** eQUEST, Energy Plus, Trane Trace 700, Therm & Window, Design Builder, MS Office, Adobe Illustrator, Photoshop, Indesign, AutoCAD, Revit Architecture, & SketchUp

ACTIVITIES & HONORS

- Teaching Assistant | ARCH 342: Environmental Technology II 2016-Present
 - Scholarship | International Building Performance Simulation Association (IBPSA-USA) Fall 2018
 - 2018 Environmental Defense Fund Climate Corps Fellowship Summer 2018
 - ASHRAE Central Illinois Scholarship 2017-18
 - University Block Grant 2017-18
 - 2017 Environmental Defense Fund Climate Corps Fellowship Summer 2017
 - ASHRAE Central Illinois Scholarship 2016-17
 - Fellow I Malcolm Jaseph Fellowship Fall 2016
 - 2016 Environmental Defense Fund Climate Corps Fellowship Summer 2016
 - Fellow I Ernest L. & Reba E. Stouffer Fellowship 2015 - 16
 - Fellow I Malcolm Jaseph Fellowship Summer 2015
 - Fellow I Ernest L. & Reba E. Stouffer Fellowship Fall 2014
 - Member I USGBC 2014 - Present
 - Student Member I American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) 2013 - Present
 - Student Member I IBPSA-USA 2018 - Present
 - Green Rescheme Graduate Studio Design Award I UIUC Spring 2013
 - Earl Prize I Graduate Studio Award Nomination I Integrative Design Studio Fall 2012
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