**EDUCATION**

**The University of Chicago** **Chicago, IL**

Masters Program in Computer Science December 2024

Relevant Coursework: Python Programming, Unix Systems, Algorithms and Data Structures, Generative AI

**Columbia University** **New York, NY**

MS Civil Engineering and Engineering Mechanics – Structural Engineering Concentration May 2017

**The University of Pittsburgh** **Pittsburgh, PA**

BS Civil Engineering Cum Laude – Structural Engineering Certificate May 2016

Awards: “Best Senior Design Project – Civil Engineering”, published a tall building [design guide](https://www.academia.edu/19613180/Outrigger-Braced_Systems_in_Tall_Buildings)

**SKILLS**

Programming Languages: Python, C, SQL, CSS, HTML

**Professional Experience**

Nordic Structures Montreal, QC

*Software Engineer* July2021*-* September2023

* Joined as an Engineering Project Manager responsible for designing mass timber building structures. Transitioned to a software engineering role after identifying high-ROI automation opportunities
* Automated mass timber calculations and connection design using Python, saving ~3 months of engineering time per project
* Established software development best practices – class model (UML) diagramming, pair programming, and Zenhub Project Management and Sprint Planning
* Led internal training of 20 engineers to upskill and use Bluebeam software more productively
* Managed a team of 10 engineers for the structural engineering design and construction drawing procurement for T3 Denver, a 6-story, 235,000 ft2 mass timber office building in Denver, CO
* Partnered cross-functionally with real estate developers, architects, and general contractors to ensure timely and cost-compliant delivery of engineered wood building products

## Arup New York

*Structural Engineer* June 2017- August 2020

## Consulting structural engineer responsible for designing large-scale building projects, collaborating with global, interdisciplinary engineering teams

## Built parametric design workflows using MySQL and Grasshopper to automate shop drawing review in the construction administration of a 4 million square foot space frame airport roof, saving 100s of hours of manual review

## Developed construction drawings, calculation reports, and technical guidance for architects, contractors, developers, attorneys, and building code officials

PRATT INSTITUTE New York

*Adjunct Professor* March 2018- August 2019

* ARCH 400: High-Rise Design Studio, ARCH 40: Advanced Design I – Timber in the City
* Delivered lectures and guided 20 students through the conceptualization and development of architectural designs and drawings
* Led technical discussions and workshops, helping students grasp complex architectural concepts and design principles