

JEFF GAO

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EDUCATION

University of Illinois at Urbana-Champaign
Bachelor of Science in Civil Engineering

Expected: May 2028
GPA: 3.81/4.00

Related Coursework:

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|-----------------------------------|---|--------------------------------|---------------------------------|----------------|
| CAD Engineering Graphics & Design | Intro Computing: Engineers & Scientists | Engineering Risk & Uncertainty | Systems Engineering & Economics | Linear Algebra |
| Differential Equations | Statics | Dynamics | Solid Mechanics | Thermodynamics |

TECHNICAL SKILLS

CAD: Revit, AutoCAD

Programming Languages: Python, R

Spoken Languages: English and Chinese

PROJECT HIGHLIGHTS

Traffic Engineering Network Flow Optimization

November 2025 – December 2025

- Modeled flow of cars from parking lots to traffic network following a basketball game using Python network matrices
- Used Python's PuLP library to create and solve a feasible linear program of traffic flow under given project constraints
- Identified optimal traffic flow and links for cars to utilize in order to leave campus in as short distance as possible
- Created report with figures of model constraints and Python code to summarize results succinctly and efficiently

Statistical Analysis of Water Discharge and Gage Height

November 2025 – December 2025

- Used R to identify statistics in a sample of water discharge amounts and gage height on Boneyard Creek
- Created a linear regression model to test null and alternative hypothesis of a linear relationship between water discharge and gage height using Residuals & Fitted, Normal Q-Q, Scale-Location, and Residuals & Leverage charts
- Collaborated with team members to write a report for our data following example papers published in ASCE journals

Revit Model of Literatures, Cultures and Languages Building

March 2025 – May 2025

- Established levels and grids and imported beam and column families from given building plans before initializing modeling
- Followed building plan specifications to accurately model building into Revit using same dimensions and materials
- Rendered interior images to match actual building images previously taken for comparison of accuracy of our model
- Formatted twenty-page report detailing modeling process, assumptions and Revit sheets to compare with actual building plans

Intro to Civil Engineering Feasibility Study

October 2024 – December 2024

- Identified existing problems and past solutions regarding a dangerous pedestrian crosswalk on campus
- Collected vehicle and pedestrian numbers through manual counts and Eco-Visio software to automatically track data
- Performed cost analysis for building a pedestrian tunnel using RSMeans and comparing to similar projects
- Delegated project responsibilities amongst team members and facilitated team progress reports

WORK EXPERIENCE

Mango Mango – waiter

April 2024 – Present

- Manage dine-in, take-out, DoorDash orders and payment through Toast POS with proficiency to customer satisfaction
- Provide friendly and attentive service to guests to answer customer questions and accommodate special requests
- Maintain a clean and safe environment by sanitizing tables, restrooms and floors during and after service

EXTRACURRICULARS AND LEADERSHIP

Illinois Rise Ultimate Frisbee – member

August 2024 – Present

- Participate in two-hour practices three times a week and drive to weekend tournaments across the Midwest Region
- Help fundraise money for the team by volunteering at football games and advertising jersey sales and food fundraisers
- Developed communication and strategy skills under pressure working with 30+ member team to strategically win games

Illinois ASCE Concrete Canoe – member

August 2025 – Present

- Attend biweekly one-hour construction meetings; currently working on preparing foam mold of boat for concrete mix
- Collaborated with fellow peers to better develop teamwork skills while using power tools and machinery together

Illinois American Society of Civil Engineering – member

August 2025 – Present

- Attend weekly member meetings listening to presentations by civil engineering firms on their work
- Networked with professional engineers and hiring managers to learn more about their companies

AWARDS AND HONORS

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| • Grainger College of Engineering James Scholar | 2025 |
| • Grainger College of Engineering Dean's List | 2025 |
| • AP Scholar with Distinction | 2024 |