

# Matias Choi

## Structural Engineering Intern

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### SUMMARY

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Dedicated Civil Engineering student with hands-on experience in structural design and analysis through various academic projects and internships. Demonstrated ability to collaborate effectively within teams while managing multiple tasks in fast-paced environments. Proficient in Microsoft Office and familiar with structural analysis methodologies. Eager to leverage academic knowledge and skills in a summer internship to support innovative engineering projects. Strong organizational skills, detail-focused problem solver who can tackle engineering challenges with creativity and insight.

### EDUCATION

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#### Bachelor's Degree in Civil Engineering

University of Washington 🎓 GPA: 3.8 📅 2026 📍 Seattle, WA

*Coursework: Structural Analysis, Mechanics of Materials, Transportation Engineering, Environmental Engineering*

### TECHNICAL SKILLS

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- **Structural Analysis Software:** SAP2000, ETABS, RISA
- **Project Management Tools:** Trello, Asana, MS Project
- **Data Analysis Programs:** MATLAB, Python, Excel
- **Communication Tools:** Microsoft Teams, Zoom, Slack
- **Document Management:** SharePoint, OneDrive, Google Drive
- **Design Standards:** AISC, ACI, ASCE
- **Safety Protocols:** OSHA Regulations, Site Safety Plans, Risk Assessments
- **Presentation Tools:** PowerPoint, Prezi, Canva
- **Certification Preparations:** FE Exam, GRE Study Materials, Online Courses
- **Field Survey Tools:** Total Stations, AutoCAD, GPS Devices

### SKILLS

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- Microsoft Office
- Team Collaboration
- Project Management
- Structural Analysis
- Data Analysis

### EXPERIENCE

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#### Structural Design Intern

University Project 📅 June 2025 - Present 📍 Seattle, WA

Supported a structural engineering project team by assisting in design calculations, member sizing, and documentation preparation. Engaged in site visits, gathering essential data while ensuring safety protocols were observed. My contributions directly supported innovative designs for community transportation projects aimed at enhancing local infrastructure and sustainability.

- Collaborated with a team to design a model for a pedestrian bridge, focusing on load calculations and member sizing.
- Assisted in preparing detailed documentation and presentation materials for project review sessions.
- Conducted site visits to gather data and assess project requirements while ensuring compliance with safety protocols.
- Utilized Microsoft Office Suite to create project reports and analysis documentation.
- Engaged in peer review processes to enhance design accuracy and project quality.
- Participated in team meetings to discuss project progress and address any challenges encountered.

#### Research Assistant

Academic Research 📅 September 2024 - May 2025 📍 Seattle, WA

Contributed to faculty research efforts focused on waterfront structures. Worked collaboratively within a multidisciplinary team, conducting data analysis and simulations that informed best practices for sustainable engineering. The outcomes not only contributed to academic discourse but also reflected a commitment to environmental stewardship.

- Supported faculty-led research on the environmental impact of waterfront structures, analyzing data from various case studies.
- Conducted simulations to evaluate the effectiveness of stormwater management designs.
- Assisted in the preparation of research papers and presentations for academic conferences.
- Collaborated with a multidisciplinary team to explore innovative solutions for sustainable engineering practices.
- Gained hands-on experience in using engineering software for structural analysis and design.

- Contributed to the development of outreach materials to promote research findings within the community.

## Capstone Project Developer

Course Project 📅 January 2025 - June 2025 📍 Seattle, WA

Led a significant team project aiming to design a retaining wall system that addresses both engineering requirements and aesthetic concerns for a local community park. This involved extensive research and coordination, culminating in a thorough report that guided successful project execution.

- Led a team project to design a retaining wall system for a local community park, focusing on soil mechanics and material selection.
- Conducted extensive research to ensure compliance with local regulations and standards.
- Developed a comprehensive project report detailing design methodologies, cost estimates, and implementation strategies.
- Presented project findings to faculty and peers, receiving positive feedback for clarity and thoroughness.
- Utilized Microsoft Excel for project budgeting and resource allocation.
- Fostered teamwork by organizing regular meetings to track project milestones and share insights.

## LEADERSHIP & AWARDS

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- Dean's List, University of Washington, 2024-2026
- First Place, University Engineering Design Competition, 2025

## CERTIFICATIONS

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- Microsoft Office Specialist Certification 📅 2026
- Fundamentals of Engineering (FE) Exam Candidate 📅 2026

## PROFESSIONAL AFFILIATIONS

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- Member, University Civil Engineering Society, 2024-Present
- Volunteer, Habitat for Humanity, 2025

## LANGUAGES

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- English (Native)
- Spanish (Proficient)

## ADDITIONAL INFORMATION

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**Work Status** : Authorized to work in United States. No sponsorship required.

## REFERENCES

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AVAILABLE ON REQUEST