# Robert J. Kirkpatrick

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## **EDUCATION**

# University of Nebraska-Lincoln

August 2017 - Expected May 2022

- Degree: Bachelor of Science in Software Engineering
- Minors: Business, Mathematics

Design Studio: Heyday

August 2020 – May 2021

- Designed and implemented the backend of a financial management app from scratch using Python and Django
- Assisted in testing and coding the frontend application in React Native used by approximately 2,000 college students

#### WORK EXPERIENCE

**Nelnet**.NET Applications Development Intern

May 2021 - Present

- Build backend applications including a C# API to support the conversion of Nelnet's internal loan consolidation platform
- Analyze loan data and create stored procedures in SQL server to interact with the data in an efficient and scalable way

Sandhills Global

**September 2020 – March 2021** 

Mobile Development Intern

• Developed native android applications to facilitate Sandhills Global's auction platforms

Hudl

Software Development Intern

May 2020 – August 2020

- Enhanced Hudl's full-stack payment and subscription management systems to improve performance and user experience
- Collaborated with full-time dev team, utilizing scrum and agile, to plan and design work for upcoming sprints
- Brainstormed solutions and supplied technical knowledge to assist team members in their development work

#### University of Nebraska-Lincoln

August 2018 - May 2020

Learning Assistant and Course Leader

- Held weekly office hours, led technical labs, and graded programming assignments to help students learn course material
- Evaluated learning assistants during their office hours, delegated assignment grading, and conducted meetings with learning assistants to collect data regarding the operational status of the program

Buildertrend May 2019 – August 2019

Software Development Intern

• Assisted with the rebuilding of Buildertrend's website under new frameworks, including react, driving improved performance and usability while maintaining existing functionality

**Northrop Grumman** 

May 2018 - August 2018

- Software Technical Intern
- Researched and recommended predictive analytics and machine learning algorithms for evaluating satellite positions
- Wrote SQL programs to compute the visible field of view for satellites that assisted soldiers in missions

# LEADERSHIP & EXTRACURRICULAR EXPERIENCE

Girls Code Lincoln July 2021 – Present

Volunteer

• Create coding lessons for a non-profit to help young girls learn STEM

# Phi Kappa Theta Fraternity

August 2017 - May 2021

Secretary

January 2019 – January 2020

Technology Chair

January 2018 – January 2019

- Attended weekly executive council meetings to discuss direction of the fraternity and voted on key policies
- Organized and communicated fraternity schedule and directed the technology chair, public relations chair, and historian through quarterly committee meetings to ensure they were fulfilling their respective position's responsibilities

#### PROGRAMMING LANGUAGES

#### **TOOLS & FRAMEWORKS**

- Proficient: C#, JavaScript, Python, SQL, TypeScript
- Proficient: Dapper, Django, Entity, .NET, ReactFamiliar: Firebase, Flutter, GraphQL, Razor, Xamarin
- Familiar: C, Dart, HTML/CSS, Java, Kotlin, Visual Basic