LIAM SEPER

ABOUT

CS, Math, and Business student at The Raikes School at the University of Nebraska-Lincoln. A passionate developer looking to make a big change, line-by-line.

CONTACTS & SOCIAL

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EDUCATION

B.S – University of Nebraska-Lincoln
08/2019 – 05/2023
Majors: Computer Science, Mathematics
Minor: Business
Programs: Raikes School, Honors
GPA: 3.99
Relevant Coursework: SE IV, DSA, Design & Analysis of Algorithms, Machine Learning, Design Studio, Multivariable Calculus, Automata, Graph Theory, Group Theory

CLUBS & ACTIVITIES

- UNL OSTEM Chapter (Treasurer)
- Computing SAB (Primary Programmer)
- FLUFF (President)
- Kauffman Residents Association

PROJECTS & AWARDS

Online Tag Feud
Personal Project | June 2021 - Current
Meta-tag web guessing game using React, Express, and Socket.io

Cornhacks
Lincoln, NE, | Jan. 2020, 2021, 2022
- WeHedge - Group Investing Platform
- Slipstream - Tournament Management

K-State Game Jam 2020
Manhattan, KS | Feb 2020
Gravity-shifting Puzzle Game
- Best AI Award Winner
- 3rd Place Overall

OSTEM National Conference
Detroit, MI | Nov. 2019, Nov. 2020
- UNL OSTEM Chapter Representative

EMPLOYMENT

Software Engineering Intern |Meta – Menlo Park, CA
05/2022 – 08/2022
Worked as the full stack engineering lead and architect of the Facebook Marketplace Search Top Filters and On-Scroll Filters projects as an engineer on the Search & Local Team, & led brainstorms outlining needs for users age 20 – 28
Backend (Hack - PHP):
- Synced filters graphQL schemas with new client fragments & queries
- Utilized an NLP service to generate top filter matches from a search
- Asynchronously processed raw string user filter usage logs
- Created various top filters variants for user exposure testing & validation
- Designed, implemented, and documented my top filter service API

Frontend (React Native, CSS):
- Wrote & optimized filters graphQL queries & fragments via lazy loading,
- Wrote logic for generic & dynamic filter UI, management, & application
- Gathered feedback & usage metrics and shipped projects via gradual deployment to ~1.2 billion unique monthly users
- Led team collaboration & filter design iterations with Commerce Tab Team,

Teaching Assistant | UNL - Lincoln, NE
08/2020 – Current
- TA for CSCE 156, Head TA RAIK 283H, RAIK 284H (Algorithms / Software Eng.)
- Responsible for attending and assisting labs, holding office hours, grading assignments, and teaching special topics lectures (REST basics, MVC basics)

Design Studio Developer | Speedway Motors – Lincoln, NE
08/2022 – Current
- Technical lead of a development team developing a system to optimize inventory pickup & drop-off locations for international orders to, as well as sync with customer demand to optimize warehouse space

Design Studio Developer| Hudl – Lincoln, NE
08/2021 – 5/12/2022
Worked with Hudl to design, build, and handoff a mobile app in which centers around connecting emerging athletes with recruiters and coaches.
- Deployment to Azure and interface with legacy C# Backend
- Front-end application work done in React Native w/ Typescript

Software Engineering Intern | First National - Omaha, NE
05/2021 – 08/2021
- Integrated our credit portal for business partners frontend (React) with the backend (Java) & wrote integration tests w/ Selenium

Data Science Intern | Ameritas - Lincoln, NE
12/2020 – 02/2020
- Data sanitation & exploration with Pandas, NumPy, and Seaborn, creating, training, model creation & fitting with Keras (Tensorflow)

Software Engineering Intern | Flywheel - Omaha, NE
05/2020 – 08/2020
- I was the engineering lead on the Divi Integration and Admin Tooling projects. Backend in Ruby on Rails, frontend in Vue.js with HAML & SCSS

Co-founder | Code Hero Academy - Lakeville, MN
06/2018 – 08/2019
A company I helped found, teaching computer science and mathematics applications to middle and high school students in a project-oriented fashion
- Met with U.S House Representative Angie Craig to discuss computer science education in middle and high school curriculum
- Built and instructed the curriculum of Python, C#, and Raspberry Pi robotics