

# Lindsey Ipson

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## **SUMMARY**

Passionate software developer who loves writing solutions for real world problems in any field. Capable of producing a cloud-hosted full-stack web application deployed through a continuous delivery pipeline. Experience integrating with third party APIs and frameworks involving inversion of control and ORM based persistence layers. Proactive team player and curious learner always looking for ways to learn and grow.

## **TECHNICAL SKILLS**

**Languages:** JavaScript (ES6, JSX), Python, SQL, HTML, CSS

**Frameworks:** React, Flask, SQLAlchemy, Bootstrap, Node

**Libraries:** SQLAlchemy, Express, jQuery, Jinja, WTForms

**Testing:** unittest (Python), Jasmine, Jest, Supertest, React Testing Library

**Tools:** Visual Studio Code, Git, Postman, PostgreSQL, Chrome dev tools, Vite

**Cloud providers:** Render, ElephantSQL

**I/O:** HTTP APIs (REST), JSON, AJAX, WebSockets, file systems (unix), JWT, JSON Schema

**Databases:** PostgreSQL

**CS:** algorithms and data structures

## **EXPERIENCE**

### **Software Engineering Fellow, Springboard | Remote**

**2/2023 - 5/2024**

- Completed 800+ hours of immersive course material in fulfillment of the Springboard Software Engineering Career Track Certification with 1:1 industry expert mentor oversight and completion of 4 in-depth projects.
- Developed skills in frontend web development, backend web development, databases, unit and integration testing, data structures, and algorithms.
- Acquired hands-on experience with JavaScript (including Node), Python, HTML, and CSS, with frameworks such as React, Flask, SQLAlchemy, and Bootstrap.
- Established project foundations including git repository, IDE setup, test automation, and delivery pipeline, and produced clean, easily-understood code with reusable components.
- Designed database schemas and integrated into SQL databases and third party REST APIs.
- Obtained a solid understanding of data structures and algorithms.
- Learned to navigate the delicate balance between time-to-market and code quality through timed assessments, deadline-driven projects, and weekly goals.
- Gained experience debugging and refactoring pre-written code.
- Through largely independent assignments under weekly mentor oversight, developed the ability to proactively find solutions and learn independently and to efficiently receive and implement feedback for strengths and areas of growth.

### **Digital Community Advisor, Rutgers University | New Jersey**

**9/2020 - 5/2021**

- Created and implemented 5 Microsoft Teams-based virtual Changemaking Communities consisting of over 500 students, aimed at engaging students in community service, civic engagement, and social justice.
- Developed and continuously assessed and improved a Virtual First Year Experience program to provide a digital community to remote-learning students via Roomcompact housing management software system.

**University Instructor, Rutgers University | New Jersey****9/2018 - 5/2021**

- Served as sole instructor of 7 classes for 3 college courses within the fields of English and Higher Education and built and managed course webpages via Sakai and Canvas learning management systems.
- Designed and created Basic Writing Skills asynchronous online course to assist students with common writing challenge areas from undergraduate to PhD levels.

**PROJECTS****Grammar and Spelling Checker Application****7/2023 - 9/2023**

<https://github.com/Lindsey-Ipson/GrammarChecker> | Deployed at <https://capstone1-z7w1.onrender.com/>

Developed a full-stack cloud-hosted web application called Grammar Checker, from requirement assessment and setup of the development environment to implementation of all functionality in both frontend and backend. It is a Flask based Python app built with server-side rendering. Functionality includes editing users' text submissions through Sapling API for grammar/spelling and categorizing and storing all of a user's errors, providing graphical analyses of a user's most frequent error types over time.

**Technologies Used:** Python, Javascript, Sapling API, Matplotlib, Jupyter Notebook, WTForms, BCrypt, SQLAlchemy, ElephantSQL, and Render.

**Poetry Peers****3/2024 - 4/2023****Frontend:**

<https://github.com/Lindsey-Ipson/Capstone1> | Deployed at <https://capstone1-z7w1.onrender.com/>

Developed a full-stack client-side rendered web application called Poetry Peers that offers collaborative poetry analysis. It is a single page application, consisting of a frontend built with Javascript, React, and Vite, with custom hooks and modular, reusable components. The backend is a Node.js API built with Express complete with JSON data validation, custom ORM models, and routing following conventional RESTful/CRUD standards. Main functionality includes ability to search poems supplied from third-party API PoetryDB, highlight poem lines to tag new or pre-existing themes with analyses, view all themes associated with poems through clickable badges next to related lines, and more. Whenever poems are searched by theme, all analyses pertaining to that theme are auto-rendered upon navigation to that poem.

**Technologies Used:** Javascript, Express, Node.js, React, Vite, PoetryDB API, Bootstrap, Reactstrap, JSON Schema, JSON Web Token, Bcrypt, Crypto-JS, Babel, Jest, SuperTest, React Testing Library

**EDUCATION****Springboard Software Engineering Career Track Certification | 5/2023****Rutgers University | New Brunswick, NJ | 2021**

- M.Ed. College Student Affairs / Higher Education Administration, 4.0 GPA, Summa cum laude
- B.A. Philosophy, 3.95 GPA, Summa cum laude
- B.A. English, 3.95 GPA, Summa cum laude

**University of Illinois at Urbana-Champaign via Coursera | 3/2022**

- Learning Technologies Foundations and Applications
- Instructional Design Foundations and Applications