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 as a developer.

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

Freelance Software Engineer **7/2023 - Present**

Poetry Peers React/Node App

- Developed a full-stack web application, Poetry Peers, for collaborative poetry analysis.
- Built a single-page frontend using JavaScript, React, and Vite with custom hooks and modular components.
- Created a Node.js API backend with Express, implementing JSON data validation, custom ORM models, and RESTful/CRUD routing.
- Integrated features such as poem search via PoetryDB API, line highlighting for theme tagging, viewable theme analyses via clickable badges next to tagged lines of poems, and theme/user contribution searches, with responsive rendering throughout site where tag analyses are auto-rendered when relevant to state of previous component.
- 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.
- Deployed at https://poetry-peers-frontend.onrender.com with repositories at https://github.com/Lindsey-Ipson/poetry-peers-frontend and https://github.com/Lindsey-Ipson/poetry-peers-backend.

Grammar Checker Flask App

- 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.
- Built server-side rendered app using Python and Flask, with core functionality including ability for users to submit text and receive improved version edited for grammar and spelling through Sapling API, review all past text submissions as well as all past grammar and spelling errors and the sentences they were found in, view graphical analyses of most to least common grammar and spelling errors throughout user's entire text submission history, and more.
- Technologies used include Python, Javascript, Sapling API, Matplotlib, Jupyter Notebook, WTForms, BCrypt, SQLAlchemy, ElephantSQL, and Render.
- Deployed at https://grammarchecker-6rj1.onrender.com with repository at https://github.com/Lindsey-Ipson/GrammarChecker.

Software Engineering Trainee, 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, SQL, 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 Roompact 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.

EDUCATION

Springboard Software Engineering Career Track Certification | 4/2024

Rutgers University | New Bruncwick, 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