Ben Heinze

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Objective

Seeking opportunities to specialize in both software engineering and data analysis, leveraging my technical skills and collaborative nature to contribute to innovative, team-driven projects. Enthusiastic about working in dynamic environments that value teamwork, communication, and shared success. Willing to relocate.

Education

Montana State University   *Bozeman, MT (Sept 2019 - Graduated May 2024)*
B.S. in Computer Science - Professional, 3.39 GPA

- **Relevant Coursework:** Software Engineering (Agile development, React, Client-oriented), Databases (SQLite, transactions, CRUD), Artificial Intelligence (Genetic algorithms, FOL, Bayesian networks), Machine Learning (supervised and unsupervised), Data Mining (dimension reduction, clustering, classification), Data Visualization (PCA, time series, text-mining, geo-spatial)

Skills and Abilities

Technical Skills: Python, Java, Git, SQL, React, HTML, CSS, Node.js, Next.js, Power BI
Teamwork and Collaboration: Effective collaborator in both small and large team settings, skilled in Agile development and cross-functional teamwork. Experience in facilitating communication and fostering positive team dynamics.
Tools: Numpy, pandas, matplotlib, seaborn, scikit-learn, NLTK, JUnit
Interests: Software Engineering, Databases, Data Science, Machine Learning
Clearance: Ability to obtain a clearance

Projects

Power BI Spotify Analysis

- Utilized Power BI to analyze eight years of personal Spotify data, generating comprehensive visualizations to showcase various Power BI techniques and usages.

Human Resource Maintenance Form   *Software Engineering Applications - Spring 24*

- Led and collaborated with a team of five to design and implement a cost-effective online maintenance form for the HRDC utilizing the React framework within an Agile environment. Emphasized teamwork in refining client requirements and ensuring high-quality deliverables in a timely manner.
- Delivered a a completely free application compared to other competitors quoting over $100+ a month.

Chinook DB Web Application   *Databases - Fall 23*

- Developed Java code for a generic music store's ER diagram and database, collaborating closely with peers to ensure robust database interactions and user experience enhancements. Incorporated team feedback to improve CRUD operations, verification processes, and Redis caching.

UNHCR Refugee Data Visualization (Link)   *Data Visualization - Spring 24*

- Analyzed the UNHCR refugee dataset with Python visualization techniques to derive data-driven insights that addressed key humanitarian questions.

Relevant Work Experience

Teaching Assistant, Montana State University CS Department   *Jan 2023 - May 2023*

- Supported the largest introductory computer science course at the university.
- Evaluated assignments and programs in collaboration with other TAs and the instructor, ensuring consistency in grading and feedback.
- Conducted labs, fostering an inclusive and supportive learning environment where students could work together and learn collaboratively.
  - Presented lab goals and concepts, encouraging group discussions and peer-to-peer learning.
  - Provided clarification and assistance, promoting teamwork among students to solve challenging problems.
  - Held regular office hours and scheduled one-on-one meetings, building strong, supportive relationships with students.
- Demonstrated leadership and adaptability by stepping into the instructor's role when needed, coordinating with colleagues to maintain course continuity.