LINN ERLE KLOFTA

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EDUCATION

GEORGIA STATE UNIVERSITY   Atlanta, GA
Bachelor of Science, Honors Program   Expected May 2026
  Major in Computer Science
  Cumulative GPA: 3.63/4.0; Dean's List 2022-2023
  Relevant Coursework: Data Structures, Computer Org & Programming, System Level Programming

UNIVERSITY PROJECTS

BIASBREAKERS INTERACTIVE GAME FOR WORKPLACE BIAS   Oct 2024
- Architected and led development of a web-based interactive chat game designed to simulate workplace bias scenarios, coded in Python with a Flask framework and styled using HTML5 and CSS3.
- Utilized a branching decision-making structure for game mechanics, dynamically loading scenario data to generate over 265 unique outcomes based on user choices.
- Designed and implemented a responsive chat-based UI, with user interactions and outcomes driven by scenario-specific nested dictionaries in Python for enhanced extensibility and scalability.
- Configured a Flask server on Google Cloud, achieving optimal performance with 99.9% uptime and reduced response times to under 200 milliseconds through precise adjustments in app.yaml and cloudbuild.yaml settings.
- Enhanced user experience by integrating session-based dialogue tracking, allowing users to revisit previous choices, view feedback, and engage with personalized outcomes.
- Utilized Git for version control, completing 65 commits throughout the development process, ensuring code quality and maintaining project integrity through effective version management.
- Developed and published a comprehensive GitHub repository containing the entire source code of the project, ensuring transparency and accessibility for potential users interested in exploring game mechanics. The game is also available for demo here.

RELATIONAL ALGEBRA PROCESSOR   Aug 2023 – Dec 2023
- Developed a fully functional Relational Algebra interpreter in Python, enabling the execution of relational algebra queries directly from the terminal.
- Built a user-friendly command-line interface for interactive query input, enhancing user experience and facilitating real-time database manipulation.
- Executed comprehensive semantic checks to ensure query integrity and database compliance, improving error handling and reporting.
- Leveraged principles of relational database theory to design and optimize the interpreter, demonstrating a strong understanding of data structures and algorithms.
- Engaged in troubleshooting and debugging processes to refine the functionality of the interpreter.
- Repository available on GitHub.

WORK EXPERIENCE

GEORGIA STATE UNIVERSITY   Atlanta, GA
Undergraduate Teaching Assistant; Computer Science   Oct 2024 – Present
- Provide hands-on support to 25+ students in learning Python and foundational computer science concepts, helping them understand complex programming principles and improving their coding proficiency.
- Deliver in-depth feedback on assignments, offering constructive insights to enhance student learning outcomes and drive academic success.
- Analyze and evaluate results by reviewing 200+ Python assignments while grading, ensuring adherence to grading standards and functionality without errors.
- Collaborate closely with professors to ensure consistent grading standards and assist with course management, contributing to the overall success of the computer science program.
- Foster a collaborative learning environment, helping students navigate challenges and succeed in their academic journey.

ADDITIONAL

Technical Skills: Python, C, ASM, JavaScript, HTML5/CSS, Flask, Google Cloud, Git, Unix/Linux.
Languages: Fluent in Norwegian, English; Conversational in Swedish, Danish.