JOHN LE

SOFTWARE ENGINEER

CONTACT

720-231-2394

johnleisme@gmail.com

Portfolio website

LinkedIn Profile

SKILLS

Programming Languages

- Python
- HMTL
- CSS
- Javascript
- C++
- Java

Essential Skills

- Problem Solving
- Flexibility & Adaptability
- Teamwork & Collaboration
- Leadership
- Strong Communication
- Attention to Detail
- Organizational
- Strong Work Ethic
- Interest in Helping Others
- Resourcefulness

EDUCATION

University of Colorado Boulder

B.S. Computer Science

GPA: 3.5

Dean's List (Fall 2023, Spring 2024)

LANGUAGES

English

Vietnamese

PROFILE

Hello, my name is John Le, and I am a Senior at the University of Colorado Boulder, pursuing a Bachelor of Science in Computer Science. Initially drawn to military service and electrical engineering, I discovered my passion for computer science through an introductory course that opened a new world of possibilities. This revelation steered my focus toward specializations in front-end development and cybersecurity.

Throughout my academic career, I've developed a comprehensive skill set in programming languages such as HTML, CSS, and JavaScript, and have deepened my expertise in cybersecurity through targeted projects. These experiences have not only honed my technical abilities but also refined my skills in communication, leadership, and problem-solving, preparing me well for collaborative and leadership roles.

I am actively seeking opportunities in front-end development or cybersecurity, aiming to deepen my expertise and contribute meaningfully to innovative software development projects. Additionally, I am open to exploring broader roles in software development/engineering, where I can leverage my robust skill set to tackle complex challenges and drive forward technological innovation.

PROJECT EXPERIENCE

Nasa Mars Rover Path-Finding Team

University of Boulder Senior Capstone Project
[NASA/JPL Mars Rover Navigation and Simulation]
Sep 2023 – Apr 2024

- Engineered a Mars Rover simulation in collaboration with a team, creating a realistic model that expertly navigates Martian terrain using an A* Search algorithm enhanced by Manhattan heuristics for optimal pathfinding along with creating a pathfinding algorithm from scratch given certain restrictions.
- Established weekly strategic meetings with all project stakeholders, successfully integrating adaptive navigation using Digital Elevation Models to produce a dynamic, interactive Martian map.

Visualizing NFL Teams' Success Statistics

University of Colorado Boulder
[https://storymaps.arcgis.com/stories/e2e78b8d78364ec3b9bcce24192c93f5]
[https://medium.com/@jame9185/what-successful-nfl-teams-do-different-248de6400bf5]
Jan 2024 – May 2024

- Employed diverse data sources to analyze and forecast NFL teams' performance, creating sophisticated interactive visualizations with Altair and Python that clearly articulate crucial performance metrics.
- Demonstrated expertise in navigating and extracting pertinent information from large datasets, ensuring that the visual outputs are not only informative but also visually compelling.

Redesigning Academy Boulder's Website

University of Colorado Boulder
[https://academyboulder.com]
Aug 2023 – Dec 2023

- Contributed significantly to a website redesign project focused on enhancing accessibility, strategically implementing HTML and CSS modifications to optimize user experience for individuals with visual or hearing impairments.
- Achieved substantial improvements in the website's accessibility compliance, facilitating a more navigable and interactive environment for all users, particularly those utilizing assistive technologies.

Predicting Student's Dropout and Academic Success

University of Colorado Boulder
Jun 2023 – Aug 2023

- I directed an individual predictive analytics initiative to discern the determinants of student dropout rates and academic success, applying sophisticated classification techniques to forecast educational outcomes.
- Through meticulous analysis, I provided insights into the socioeconomic elements influencing student trajectories, employing logistic regression models that integrated academic performance metrics and economic indicators to project diverse student outcomes with precision.

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REFERENCES

Reference Name

xxx-xxx-xxxx

xxx@xxx

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xxx-xxx-xxxx

xxx@xxx

PROJECT EXPERIENCE

Object Oriented 'Go Fish' Game

University of Colorado Boulder — Jan 2023 – May 2023

- Developed an object-oriented 'Go Fish' game, incorporating sophisticated design patterns such as singleton, factory, and strategy to enhance functionality and user experience.
- Integrated a comprehensive system for game progress tracking and user account management, ensuring a personalized and adaptable gameplay experience.

Software Development Semester Group Project

University of Colorado Boulder — Jan 2022 – May 2022

- Collaborated on an agile-driven project to design and launch an interactive, user-friendly website for budget management, reducing development time significantly with technologies like JavaScript and Bootstrap.
- Constructed a platform that not only simplifies UI interactions but also integrates various software development tools, achieving a comprehensive tool for student budget management.

EXPERTISE

Front-end Development

- Proficient in building and optimizing user-friendly, responsive websites using HTML, CSS, JavaScript, and Bootstrap.
- Experienced in redesigning websites to enhance accessibility and user experience, particularly for users with disabilities.
- Skilled in creating interactive data visualizations and UI components that improve user engagement and information clarity.

Software Engineering

- Strong foundation in object-oriented programming with experience in Java, C++, and Python, enhancing software design and development.
- Practiced in agile development methodologies, contributing to efficient and adaptive project management.
- Proven ability to integrate complex software solutions, improving system functionality and user interaction.

Cybersecurity

- Knowledgeable in applying cybersecurity measures to protect data integrity and prevent unauthorized access across various projects.
- Competent in employing modern cybersecurity practices and tools to safeguard information systems and networks.
- Adept at analyzing and fortifying web applications against common security vulnerabilities.

Analytical Skills

- Expert in employing advanced data analysis and predictive modeling techniques to solve complex problems and forecast outcomes.
- Capable of extracting and interpreting large datasets to derive meaningful insights and inform strategic decisions.

Collaboration and Leadership

- Demonstrated leadership in coordinating project teams and conducting strategic meetings to align project objectives and deliverables.
- Excellent teamwork skills, with a history of successful collaboration in diverse group settings, ensuring cohesive and productive team environments.