SENUVI JAYASINGHE

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EDUCATION

The University of Illinois Urbana Champaign, IL — Expected Graduation: December 2025
Bachelor of Computer Science and Statistics
Relevant Coursework: Database Systems, Applied Machine Learning, Data Science Discovery

SKILLS & Certification

Programming Languages: Python (3 years), SQL, JavaScript, R,
Software & Tools: HTML, CSS, Vue, Git, Figma, Visual Studio, WordPress, Microsoft Office Suite
Certifications: Data Science Discovery, IBM Introduction to Web Development with HTML, CSS, JavaScript

EXPERIENCE

Web Developer Intern — January 2025 – May 2025
University of Illinois Urbana-Champaign

- Will design, develop, and maintain responsive websites using advanced web frameworks and tools, ensuring accessibility and cross-browser compatibility.
- Will gain experience in Agile workflows, custom template design, usability testing, and creating training materials.

Research Assistant — September 2024 – December 2025
University of Illinois Urbana-Champaign

- Collaborate on research expanding findings from the paper *"Does Diagnostic Feedback Promote Learning?"* applying cognitive diagnostic modelling (DINA) to analyze rational number knowledge using cognitive diagnostic modelling.
- Developed statistical models to evaluate slipping/guessing probabilities, identifying patterns in skill mastery and informing evidence-based assessment designs.

Applied Technologies Intern - LMS Specialist — Summer 2024
University of Illinois Urbana-Champaign

- Conducting comprehensive data analysis on campus safety incidents, identifying trends and patterns based on incident type, location, and timing, using Python for data processing.
- Developing a machine learning model to predict future campus incidents based on historical data, focusing on model optimization to enhance accuracy and performance.

Web Designer — May 2022 – June 2023
Wheels for All (Non-Profit Organization)

- Led a full website redesign to improve functionality, scalability, and user experience, leveraging WordPress to implement responsive design principles and enhance performance.
- Engineered and optimized key departmental web pages, increasing site efficiency and user engagement through structured content layout and streamlined navigation.

Academic Tutor — January 2022 – June 2023
Richard Bland College of William & Mary - MiSTic Peer Tutor

- Delivered tutoring in Computer Science and Pre-Calculus, facilitating student learning in programming fundamentals and algorithmic thinking.

PROJECTS

Recipe Finder | Group Project – Github — August 2024- December 2025

- Designed and implemented a responsive frontend for a recipe search application using Nuxt3, Vue.js, and TypeScript, optimizing for seamless user experience and performance.

Illini Safe | Personal Project - Github — July 2024- Present

- Developed an interactive dashboard to visualize campus safety data using Python, JavaScript, and Plotly.
- Implemented predictive models to forecast incident trends and integrated dynamic heatmaps for real-time insights.

Real-Time Age and Gender Prediction (Group Project)- Github — April 2024- August 2024
Google Developer Student Club

- Designed and implemented a real-time age and gender detection application using Python, OpenCV, and TensorFlow.
- Developed computer vision workflows for live video feed processing with integrated bounding boxes and predictions.

ACTIVITIES

Telemetry Application Developer- Strategy & Telemetry Team August 2023 – Present
Illini Solar Car, University of Illinois Urbana Champaign

- Reengineering frontend components of the Telemetry app, implementing dark mode to enhance usability and aesthetics.
- Collaborated on improving visual interfaces for real-time solar car monitoring systems.

Hackathon 1st Place (Bell) | Elle Hacks | Re-FABric app November - 2022

- Collaboratively designed and prototyped the Re-FABric app using Figma, navigating initial challenges to deliver a user-centric application focused on sustainable fashion decisions.
- Contributed to the development of an innovative app that educates users on proper disposal and recycling of clothing, featuring a camera function for item scanning and a directory for local donation centers, developed using Python and the Kivy module.