VINUK RANAWEERA

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SUMMARY

Full-Stack Developer skilled in modern web frameworks, backend systems, and cloud deployment. Experienced in building responsive, data-driven apps with a focus on user experience. Passionate about crafting seamless digital solutions for education and entertainment.

SKILLS

HTML, CSS (Tailwind), JavaScript, TypeScript, React.js, Python (Flask, Django), MongoDB, MySQL, REST APIs, Git, GitHub, WordPress, Responsive Web Design, Cross-Browser Compatibility, Heroku, Vercel, AWS (basic deployment), Search Engine Optimization (SEO), User Experience (UI/UX), Full Stack Development, Problem Solving, Collaboration

EXPERIENCE

Web Developer | Self-Employed   **Jan 2016 - Present**
- Design responsive websites using React.js or WordPress according to clients' needs.
- Built the American Statistical Association NJ Chapter website, http://asanjchapter.org (2016).

Research Intern | BCC Geospatial Center of the CUNY CREST Institute   **Jul 2021 - Aug 2022**
- Preprocessed large-scale geospatial imagery using Google Earth Engine (GEE) APIs.
- Created GeoTIFF files for visualization and vegetation analysis.
- Developed Python & GEE tutorials to help researchers analyze imagery data.

Teacher Assistant (Junior Video Game Design)   **Jan 2017 - Apr 2017**
The Department for Lifelong Learning, Wagner College
- Assisted 25 middle school students in designing 2D video games using Scratch & Unity.

EDUCATION & CERTIFICATIONS

New York University (NYU) Tandon School of Engineering
Master of Science in Computer Engineering   **Expected May 2027**

MIT Professional Education
Applied Data Science Program: Leveraging AI for Effective Decision-Making   **Aug 2024**
- Applied machine learning techniques to optimize product recommendation on e-commerce websites, understand the marketplace, and evaluate customer retention.
- Ranked in the top 5 highest accuracy of the final hackathon challenge for creating a classification model to predict customer satisfaction of train passengers.

Grove School of Engineering, The City College of New York (CUNY)
Bachelor of Science in Computer Science   **Dec 2023**
- *Honors*: Cum Laude, Dean's List
- *Relevant Coursework*: Data Structures, Algorithms, Software Design, Assembly Programming, Discrete Math, Probability Theory, Numerical Analysis in Programming, Modeling Complex Systems, Machine Learning

Coursera
Google Data Analytics Professional Certificate   **Jan 2024**
- Acquired skills in data analysis and visualization using Spreadsheets, SQL, R, and Tableau.

Java Programming: Arrays, Lists, and Structured Data by Duke University Certificate   **Aug 2019**
Java Programming: Solving Problems with Software by Duke University Certificate   **Jul 2019**

PROJECTS

AI Fortune Generator | *React.js, APIs, Responsive Web Design* | Link to Project   **Nov 2024 - Present**
- Created a playful web application using the OpenAI API to generate AI-powered fortunes in 12 unique categories, such as jokes, fun facts, riddles, and more.

Pokémon Recommendation Web App | *React.js, Flask, MongoDB* | Link to Project   **Aug 2023 - Present**
- Engineered a machine learning model with over 97% accuracy in predicting the type combinations of Pokémon.
- Developed a dynamic web app that delivers strategic battle suggestions for user-selected Pokémon teams.

Online Book Store Web App | *TypeScript, Express, MongoDB* | Link to Project   **Apr 2023 - May 2023**
- Built a sleek e-commerce web application for browsing, searching, and purchasing books.
- Designed backend systems with Express and MongoDB to manage inventory and user information.