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EDUCATION

- **Master's in Computer Science** Aug 2023 – May 2025
Southern Illinois University, Carbondale
GPA: 3.7
- **Bachelor's in Computer Science & Engineering** Jul 2018 – Aug 2022
Jawaharlal Nehru Technological University, Hyderabad
GPA: 3.0

EXPERIENCE

- Frontend Developer Intern (Unpaid)** | Social Butterflies Foundation | Newport News, VA. Apr 2025 - Present
Tools Used: HTML5, CSS, JS, WordPress, Three.js, Spline Agile.
- Engineered responsive web interfaces utilizing React, TypeScript, ensuring 98% design fidelity, implemented HTML, CSS, and JavaScript for responsive design, collaborating effectively with team members to meet project deadlines.
 - Integrated interactive 3D animations via Three.js and Spline, targeting a 25% increase in user engagement and resolving 150+ frontend issues.
 - Piloted the enhancement of four WordPress plugins with custom JavaScript, adhering to Agile development & Jira standards, corrected over 150 front-end bugs, and achieved a 99% positive feedback score from beta testers for improvements.
- Clerical and System Support Assistant** | SIU Housing | Carbondale, IL. Aug 2023 – Dec 2023
Tools Used: Python, SQL, JS, REST API, React Native, Excel, Linux, Power BI.
- Deployed Python scripts for automated data validation and REST API development, leveraging SQL database to enhance system performance and resolve 15+ weekly errors within the RTOS environment. This improved software architecture, increased data reliability and raised overall system accuracy to 99%.
 - Spearheaded the integration of Cypress end-to-end testing framework and managed the testing process, ensuring rigorous quality assurance, resulting in the identification and resolution of 15 critical UI bugs prior to product launch, significantly elevating user satisfaction.
 - Created interactive data visualization dashboards using React, JS, Python & RESTful APIs to present student record insights, enhancing data accessibility and user experience for 5,000+ student records, contributing to process improvement initiatives.

SKILLS

- **Languages:** Python, Java, JavaScript, C, C++, TypeScript.
- **Web Development Tools:** HTML5, CSS3, SASS, AJAX, Webpack, GraphQL.
- **Databases:** MySQL, NoSQL, Oracle, Snowflake.
- **Frameworks:** Bootstrap, React.js, Three.js, Next.js, Node.js, Django, Redux, React Native.
- **Developer Tools:** Power BI, WordPress, Spline, Confluence.
- **Version Control Systems:** Git.
- **Libraries:** NumPy, Pandas, SciPy, TensorFlow, PyTorch, Scikit-learn, Matplotlib, Seaborn.
- **Operating Systems:** Windows, macOS.
- **Data Management:** MDM, REST APIs.

PROJECTS

- Next Step AI** | Individual Project Feb 2025 – Mar 2025
- Architected a proof-of-concept product career system employing Django, a Production-grade web applications project incorporating AI/ML that handled 1,000+ data points, and validated input errors by 99% with a focus on security.
 - Engineered a responsive UI utilizing HTML, CSS, and Bootstrap, integrated with RESTful APIs, to streamline interaction between client and server, enhancing data retrieval speeds by 40% improving performance engineering.
 - Executed rigorous code reviews using Jest, leading to the immediate remediation of 98 critical bugs; shipped builds with zero post-release hotfixes for 3 months.
- Stock Trend Forecasting Engine** | Capstone Project Jan 2022 - May 2022
- Designed and implemented a machine learning model using ARIMA, Linear Regression, and Python, leveraging advanced algorithm design and data structures incorporating hypothesis testing and regression analysis techniques, improving forecast accuracy by 15% and saving 10+ hours per month through workflow automation.
 - Built interactive data visualizations with Matplotlib, HTML, and JavaScript, improving insights for 150+ users.
 - Led a cross-functional team to improve interdepartmental coordination and project workflow efficiency, resulting in on-time delivery of a high-impact machine learning system used by 150+ users.
- Automated Parking Assistance System** | Independent Project Aug 2021 – Dec 2021
- Initiated a feedback mechanism that captured 500+ responses, directly resulting in a 97% first-contact issue resolution rate and decreased the backlog for software updates.
 - Optimized UI and system functionality using React, Python, Node.js, and MySQL to build SPAs, implementing Cloud Infrastructure Automation on AWS, leveraging distributed storage and index techniques within multi-tiered systems for Ethernet adapter and network stack improvements, increasing efficiency by 40%, and improving engagement for 1,000+ daily users.

CERTIFICATIONS

SQL for Data Analysis, Backpack React Web App, Python Programming, Complete Automation using Python, Web Development with Html & CSS.