

Preston Satterfield

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Software Engineer

EXPERIENCE

GOWELL | Houston, Tx 01/2024-Present
Software Engineer

- Lead UI design and development for Gowell's data analysis website using Typescript, React, and Flask.
- Engineered comprehensive software architecture for multiple projects using UML. following the "V model" methodology for structured development and testing.
- Ensure effective risk mitigation in research projects by developing prototypes using LangChain, Neo4j, and Python.
- Research and develop AI solutions with the goal of surpassing current AI limitations and developing a system that is closer to human intelligence.

Select Achievements

- Recognized for high performance and promoted to additionally take over Lead IT responsibilities (06/2024).

HEWLETT-PACKARD COMPANY (HP) | Spring, Tx 06/2023-08/2023
Software Developer, Intern

- Contributed to an up-and-coming technology that leverages edge computing to give users high computing power without needing a high-end computer.
- Developed a key feature in this product that the users will use every day.
- Surpassed the expectations of my manager with the quality and speed of my work.
- NDA limits what I can say about this position, but it was a great opportunity to learn and develop software that users use every day.
- Leveraged Git, React, Typescript, and Golang to create a new feature that connects to our backend servers.

HOUSTON-GALVESTON AREA COUNCIL (H-GAC) | Houston, Tx 08/2021-07/2023
Full-Stack Webmaster, Intern

- Collaborated with all of our departments to keep their content up to date, create new content, and make registration forms for our many events.
- Handled the day-to-day operations on our website. Ensuring exceptional quality and reliability to our users.
- Created forms with payment processing, event registration sign up, and confirmation emails for hundreds of users.
- Leveraged Model View Controller (MVC) pattern for web development. Connecting our front end to our database and email service.
- Completed my tasks using C# ASP.NET, HTML, CSS, JavaScript, Microsoft SQL Server, and Kentico (CMS)

EDUCATION

UNIVERSITY OF HOUSTON | Houston, TX 08/2020-12/2023
Bachelor of Science in Computer Science, Minor in Mathematics. GPA 3.7
Honors College Graduate

TECHNICAL

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- Python, React, Typescript, JavaScript, ASP.net (C#), Bootstrap, Golang, Kentico (CMS), HTML, CSS, Linux

PUBLICATIONS & UNIVERSITY PROJECTS

Light-Duty Vehicle GHC Emissions: University of Houston, Energy

- Employed linear regression and other statistical techniques analyze and compare lifetime GHC emissions of internal combustion engine vehicles (ICEVs) and electric vehicles (EVs).
- Utilized Flask, JavaScript, HTML, and Bootstrap to implement a user-friendly interface allowing adjustments to key parameters, enabling stakeholders to test various scenarios.

AWARDS

- Dean's List- University of Houston, 08/2020-12/2023
- Academic Excellence Scholarship, 08/2020- 12/2023