# CS499 Milestone Two

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For this milestone, I’ve recreated the functionality of the Travlr Getaways fullstack MEAN application in the PostegreSQL, Express, React, and Node.js (PERN) stack. I chose this artifact for its complexity and its potential to be iterated on to showcase the skills I’ve attained through my work towards acquiringmy bachelors in Computer Science. With a fullstack application showing a well-roundedness with work in both backend processes and frontend functionality, plus the overall size of the project compared to the smaller and simpler projects in other classes, I thought this would be a suitably challenging and impressive artifact to improve.

For this milestone, I have applied myself by recreating the functionality of the fullstack application, but with using the PERN stack. This shows a fluid and dynamic understanding of processes so that they can be translated into any language, and shows a high level of critical understanding of structuring software engineering and design.

I believe I’ve met several course outcomes through this milestone, including employing strategies for building collaborative environments that enable diverse audiences to support organizational decision making in the field of computer science, designing, developing, and delivering professional-quality oral, written, and visual communications that are coherent, technically sound, and appropriately adapted to specific audiences and contexts through my ample usage of formatting best practices and ample amounts of comments explaining each section of the code in practical terms. I also met the outcome of demonstrating an ability to use well-founded and innovative techniques, skills, and tools in computing practices for the purpose of implementing computer solutions that deliver value and accomplish industry-specific goals through my use of modern databases and application solutions.

As a reflection, this is quite stressful trying to get working since by the nature of the project, I would finish the databases enhancement first, then the data structures, then this one. I’ve hustled quite a bit, and I’ve made some decisive cut corners such as consolidating the customer page and the admin page into one, skipping the log in and security functionality to finish with the databases milestone, and the severe lack of any formatting aside from throwing the original’s css in and having whatever populate happen currently. I’ve learned a lot about how react works, and other functionalities including Neon, Zustand, and Vite. This was an excellent learning experience and I could have learned even more taking a post-mortem look after the project is over.

To run the application, run two powershells, one into the CS499 folder for the database and api connection, and another into CS499/frontend. In the windows, run: npm run dev, and go to <http://localhost:5173/.>

Pictures:

