Sakila Javascript

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PROJECTS

UML2Code LinkedUp # React Bootstrap and CSS are used in Software Engineering II. Used Reac | *Linux, JavaS*
- Developed a full-stack web application designed to educate students in intro CS courses on UML diagramming and fundamental object-oriented design principles.
- Implemented an interactive diagramming interface with React, RESTful backend server with Express, and CI/CD pipeline with GitHub Actions and Vercel.
- Currently implementing a Java code generation algorithm from the diagrams constructed within the application.

Huffman Encoding & Decoding | *C, JavaScript* 						Mar. 2022
- Developed an efficient Huffman coding algorithm in C and JavaScript to compress a given string.
- Additionally, implemented the decoder function from the encoders output.
- Utilized dynamic programming techniques while optimizing for maximum compression ratios compared against other algorithms such as RLE (Run-Length Encoding).

UML2Code Custom Fraternity Mobile App - React Native # Real Problem | *Linux, C* 		Nov. 2021
- Developed a full-stack web application designed to educate students in intro CS courses on UML diagramming and fundamental object-oriented design principles.
- Implemented an interactive diagramming interface with React, RESTful backend server with Express, and CI/CD pipeline with GitHub Actions and Vercel.
- Currently implementing a Java code generation algorithm from the diagrams constructed within the application.

UML2Code - C (or UML) to Code Software Deployment | *C, Java* 				Nov. 2021
- Development of a full-stack web application designed to educate students in intro CS courses on UML diagramming and fundamental object-oriented design principles.
- Implementations includes an interactive diagraming interface with C, RESTful backend server with Java, for future software deployment projects based upon the OOP principles learned throughout Software Development course.

RealOS | *JavaScript, Linux, C* 							May. 2021
- Developed a fully functioning Linux-based operating system from scratch using JavaScript and C programming language.
- Utilized command line utilities to create user accounts, manage services, establish network connections, and handle application launchers.
- RealOS was designed with the future expansion of applications in mind which allowed for advanced usage by both administrators as well as regular users on a variety of devices.

TECHNICAL SKILLS

Java, C, JavaScript, Linux

EDUCATION

California Polytechnic State University 						San Luis Obispo
Bachelor of Science in Computer Science 					*Sep. 2019 - June 2024*

Coursework | Introduction to Computer Graphics, Software Construction, Knowledge Discovery from Data, Introduction to Operating Systems, Artificial Intelligence, Programming Languages, Software Requirements Engineering, Theory of Computation I, Deep Learning, User-Centered Interface Design and Development