Andrew Eppich

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EDUCATION

Chapman University Orange, CA
Bachelor of Science Expected May 2026
Major in Software Engineering; Minor in Business Administration
Cumulative GPA: 3.0/4.0
Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming in Java, C++ Programming, Python Programming, Software Design, Software Requirements and Testing, Programming Languages, Operating Systems, Linear Algebra, Engineering, Multivariable Calculus, Leadership

UNIVERSITY PROJECTS

STUDENT-FACULTY DATABASE May 2024
- Coded a lazily balanced binary search tree based database in C++
- Stored student name, student major, student year, student ID, student advisor ID, faculty name, faculty position, faculty department, faculty advisee ID.
- Capable of searching for students and faculty by ID number, adding and deleting student or faculty from the database by ID number, and changing advisor or advisee ID number.

ERS CARD GAME November 2023
- Coded advanced card game with self shuffling deck, randomized dealer, and simple artificial intelligence player in Java
- Player looks for certain combinations in the game and slaps the deck when the pattern is identified

SPEAKER VIEW March 2024
- Created a stack based program in C++ to place people based on their height so they can see a speaker
- Created a stack from scratch capable of resizing

MONTE CARLO SIMULATION October 2024
- Created a threaded Monte Carlo simulation in C using the POSIX standard library for thread creation
- Capable of completing the simulation with 1 billion points

LARK GRAMMAR CALCULATOR September 2024
- Created a calculator in Python that utilizes the Lark grammar library to implement recursion
- Able to handle multiple expressions at once including logarithms, exponents, parenthesis, and negative numbers

COMMAND-LINE SHELL September 2024
- Created a command line shell in C which functions in Linux and UNIX environments
- Utilizes fork() system call to create parent and child process
- Child process processes user command line arguments by using execvp() system call

ROBBER LANGUAGE TRANSLATOR February 2024
- Created a translator for the robber language in C++
- Utilized a file processor to read text from a .txt file and write the translation to another .txt file
- Child process processes user command line arguments by using execvp() system call

ADDITIONAL

Technical Skills: C, C++, Java, Python, Data Structures, Algorithms, HTML, CSS, Math, Object-Oriented Programming, Git, UNIX, Linux, Visual Studio IDE, Docker, Confluence, Jira
Languages: Fluent in English; Conversational Proficiency in French
LinkedIn: www.linkedin.com/in/andrew-eppich-517229292
Portfolio: https://andreweppich.github.io/
Projects: https://github.com/AndrewEppich/Coding-Projects