

EDUCATION

San Marcos, CA	California State University, San Marcos	Fall 2020 – May 2022
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- Major: B.S. in Software Engineering, May 2022. In-major GPA: 3.7
- Completed Coursework: Assembly Language and Digital Circuits; Data Structures and Algorithms; Introduction to Software Engineering; Software Requirements and Design; Discrete Mathematics; Programming Languages; Database Management Systems; Software Testing and Quality; Software Architecture.
- In-Progress Coursework: Cloud Computing; Web Programming, Software Project Planning and Management
 - Senior Software Engineering Capstone Design Project
 - *Project Scope:* Working as part of a three-member team with California State University, San Marcos Engineering Department to create a new software application that will provide a more efficient graduation roadmap for Electrical Engineering students.
 - *Tools:* Visual Studio Code, MySQL, AWS EC2, AWS RDS, Node.js, React, HTML, CSS, Bootstrap

COURSE PROJECTS

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- **Neitherstone Norwood Books** (Flask/PostgreSQL/AJAX/JavaScript/jQuery/CSS/JWT/AWS) Designed and implemented a full-stack, single-page, web application hosted on AWS that allows a user to create an account or login to an existing account, view a list of books, and purchase a book. This application utilized JSON web tokens to validate the user's credentials and a password-hashing function, bcrypt, to securely store their password in the database.
 - **iCook v2.0** (Java/Java Swing/MySQL) iCook v1.0 with four design patterns added including Builder, Prototype, Decorator, and State. The Builder design pattern allows users with admin permissions to create new recipes and add them to the database without going directly to the database. Prototype allows the user to modify a recipe without altering it and still gives them access to the original recipe. Decorator allows the user to add an image or hyperlink to a recipe. Lastly, the State design pattern organized the code by separating multiple UI's into different states within the View package of the MVC architecture pattern the application uses.
 - **Single Line Lexer** (Python/Regex) Implemented a standalone application that demonstrates how a compiler works. The application parses input data into a set of tokens and display the tokens with the respective category using regular expressions.

INDIVIDUAL PROJECTS

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- **Personal Website** (HTML/CSS/Digital Ocean) Designed a personal website that was originally hosted through a Raspberry Pi, but moved to a cloud service due to poor internet.
 - **Memory Game** (Java/Java Swing) Designed and implemented a standalone application that allows a user to view a grid of face-down images and the user selects cards until they find all the matches.

ADDITIONAL EXPERIENCE AND AWARDS

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- **Dean's List** (2019-2021)
 - **Tau Sigma National Honor Society** (2021)

LANGUAGES AND TECHNOLOGIES

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| <ul style="list-style-type: none">• Languages: Python, Java, SQL, Node.js, JavaScript, HTML• Web Technologies: HTTP, REST, Flask, AJAX, JWT, jQuery, CSS• Databases: PostgreSQL, MySQL• Frameworks: React• Cloud Services: AWS, GCP, Google Firebase, Digital Ocean | <ul style="list-style-type: none">• Data Technologies: JSON• Tools: PowerShell• Version Control: Git, GitHub• Environments: Ubuntu Linux• Software Process Models: Agile (SCRUM), Waterfall |
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