

William Chen

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EDUCATION

- **New Jersey Institute of Technology** Newark, NJ
Masters of Science in Computer Science; GPA: 3.5 September 2022 - Current
- **Rutgers University** New Brunswick, NJ
Bachelor of Arts in Psychology, Minor in Computer Science Graduated May 2022

EXPERIENCE

- **StudyFind** Atlanta, GA
Software Engineer Intern March 2023 - Current
 - **JavaScript, React:** Collaborated with a team of developers to develop over 15 dynamic testing components for the StudyFind researcher page using JavaScript and React, resulting in a more user-friendly and interactive experience for researchers.
 - **Firebase, Firestore, React, CSS, Python:** Utilized Firebase to organize and strengthen StudyFind's Firestore rules, increasing security. Additionally, implemented an aesthetic newsfeed feature on the researcher page using React, CSS, Python, and Firestore, which enhanced the website's functionality and visual appeal
- **Arroyo Seco Saints** Pasadena, Ca
Web Development Intern February 2023 - Current
 - **Web Development:** Collaborated with other web development interns to support the Arroyo Seco Saints, a non-profit organization, by implementing custom WordPress plugins to streamline their website's functionality and improve user experience.
 - **Wordpress, CSS, HTML:** Revamped outdated HTML and WordPress websites by utilizing CSS to create a cohesive design, effectively archiving and preserving historical information for future reference.
- **Spencer's Gifts** Egg Harbor Township, NJ
Software Engineer Intern Sept 2022 - December 2022
 - **JAVA:** Created an internal login and register system where login information was saved onto an Excel sheet using Apache POI and a SQL server and unregistered user details were crosschecked to existing users to verify login designed with a model view controller architectural pattern.
 - **JavaScript, CSS, HTML:** Users that logged in were able to view a dashboard created using Javascript and the API WebDataRocks where users were able to view orders and orders per hour by location generated by the API.
 - **Spring, REST API:** Created a RESTful API that generated data from CSV sheets and delivered data in the form of JSON whenever called using Spring Boot.

PROJECTS

- **Scripts for Various Numerical Algorithms and Modeling**
Languages Used: Matlab
 - **Cubic Splines and Least Squares Modeling:** Given a set of points the cubic splines script would find all of the coefficients of all 3rd-degree polynomials and map the following graph, the least squares script will find a polynomial of degree n that approximates the points minimizing the error squared.
- **Real Estate Pricing with One-Shot Learning**
Languages Used: C
 - **Gauss-Jordan Elimination Algorithm:** Read a training file containing attributes such as square feet, and prices per square feet, and using several data examples I was required to compute the inverse of matrices, multiplication, transposition, etc to predict house prices.

EXTRACURRICULAR

iMentor March 2023 - Current: Provided 1 on 1 mentorship to an 11th-grade student, supporting their path to becoming a software engineer by checking in on them weekly and guiding them through tasks such as getting researching potential colleges.

Pandemic Professors March 2023 - Current: Provided academic tutoring services for Pandemic Professors, supporting students in achieving academic success despite challenges posed by the pandemic.