

MADISON PHUNG

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EDUCATION

NEW YORK UNIVERSITY, Gallatin School of Individualized Study
Bachelor of Arts, Computer Science, GPA: 3.58

Expected May 2025

Courses: Software Engineering, Agile Development and DevOps, Applied Internet Technology, Data Structures and Algorithms, Database Design and Implementation, Web Design, Information Design, New Media Research Studio

SKILLS

Languages: Python, JavaScript, Java, SQL

Technologies: ReactJS, NodeJS, ExpressJS, MongoDB, Firebase, Flask, Beautiful Soup, Pandas, Docker, Expo, Tailwind CSS, Bootstrap, HTML, Figma

WORK EXPERIENCE

Texas Union Mortgage

Frisco, TX

Software Engineer Intern

Jan 2025 - Present

- Developing the Closing Cost Estimator tool using JavaScript and React to calculate accurate financial planning
- Conducts user research and usability testing to gather feedback from end-users for feature prioritization

PROJECTS

Places2Be Mobile App – *JavaScript, React Native, NodeJS, Firebase, Expo*

(Tech Treks Cohort)

- Created an iPhone application to help NYU students discover unique study spots and hidden gems around campus
- Managed user data by integrating NodeJS with Firebase, enabling seamless data retrieval and user authentication
- Voted best project at Tech Treks Project Showcase by cohort leads

Birdie Train Web App – *JavaScript, ReactJS, NodeJS, ExpressJS, MongoDB, Tailwind CSS*

(Class Project)

- Designed a full-stack web application to allow golfers to keep track of round performance and projected handicap
- Utilized ExpressJS to implement player metrics calculations and managed user data storage with MongoDB Atlas.
- Developed secure user authentication using JWT and bcrypt for user account management and data security

Fantasy Football Rankings Web App – *Python, Flask, Beautiful Soup, Pandas, Bootstrap*

(Personal Project)

- Developed a web application that recommends the best football players to users to draft for Fantasy Football
- Implemented a web scraper with Beautiful Soup to extract weekly player data from the FantasyPros website
- Processed and analyzed player statistics to calculate recommendation ratings and rank each player by position

EXTRACURRICULARS

TechTreks – Product Manager/Lead Software Engineer

Oct 2024 – Dec 2024

- Selected to participate in a 13-person cohort, meeting twice a week to collaborate, learn, and network with peers and industry professionals
- Managed a four-person team over a semester-long group project, Places2Be, by facilitating team meetings, creating Sprint schedules, and defining the app's technical framework and architecture

HackNYU – Award Winner

Feb 2023

- Competed in NYU's 24-hour hackathon with a financial budgeting web app, "Splitsies"
- Won the "Most Creative Use of Twilio" award for implementing a text messaging notification feature through Twilio's API

NYU Women's Golf Team – Golf Team Captain

Aug 2021 – Present

- Commits an average 15+ hours per week for practice and tournaments while balancing rigorous course load
- Team Finished 8th at the NCAA DIII Women's Golf National Championship (2022), Placed 1st individually at the St. Lawrence Invitational
- Holds the NYU women's golf record for lowest single-round and lowest 36-hole tournament score