

# GARRETT WILLOUGHBY

Hamden, CT | 203-654-1701 | [garrettwilloughby@gmail.com](mailto:garrettwilloughby@gmail.com)

[github.com/garrettwilloughby](https://github.com/garrettwilloughby)  
[linkedin.com/in/garrettwilloughby](https://linkedin.com/in/garrettwilloughby)

## EDUCATION

### University of Connecticut

*Bachelor of Science in Computer Science, Minor in Mathematics*

GPA: 3.67/4.00

May 2025

Storrs, CT

## WORK EXPERIENCE

### Software Engineer Intern

*Hubbell Incorporated*

May 2024 - Aug 2024

Avon, CT

- Revised .NET API endpoints to facilitate seamless data integration and communication between front-end, back-end as well as data provider.
- Assisted in the development of a responsive and user-friendly front end using Angular, enhancing user interaction and experience.
- Implemented Terraform scripts to automate the provisioning and management of infrastructure, ensuring consistent and reproducible environments.

### Software Engineer

*Kinesiology Research Lab*

Nov 2023 - Present

Storrs, CT

- Developing the P3-EX web application using Next.js and Django backend for prescribing exercises to cardiovascular patients.
- Collaborated with healthcare professionals and researchers to implement intuitive user interfaces tailored to industry needs.
- Implemented RESTful APIs to connect the front-end with the Django backend facilitating a smooth exchange of patient data and exercise prescriptions within the application.

### Intern

*Atlantic Fabrication Company*

May 2023 - Aug 2023

South Windsor, CT

- Utilized SQL to generate reports by creating queries to provide insights for data driven decision making.
- Supported the implementation of an ERP system and created a training program to help team members navigate the system efficiently.
- Created a Customer Relationship Management (CRM) in Excel using VBA to enhance communication efficiency and tracking.

## PROJECTS

### Learn Chinese! Flashcard App | *React, Node.js, Django, Postgresql*

- Chinese flashcard app made using React and Django aiming to create a smooth learning experience across desktop and mobile users.
- Integrated SpeakSynthesis and Translation APIs and developed REST apis to enhance user experience.
- Engineered a SuperMemo2-inspired algorithm aiming to optimize memory retention and improve learning efficiency for users.

### Course Registration Web Application | *Vue, AWS*

- Student administration website mock using VueJS for the frontend and leveraging AWS services (S3, DynamoDB, Lambda functions, API Gateway) for the backend.
- Implemented five core features including user authentication, course management, schedule viewing, and class/professor creation, catering to distinct user roles (student, teacher, admin).
- Contributed to a team of four using AGILE methodology, ensuring efficient workflow and timely delivery of project milestones.

## TECHNICAL SKILLS

**Languages & Tools:** Python, HTML, CSS, JavaScript, C, C#, C++, SQL, VBA, Terraform, YAML, Git, AWS, Azure DevOps

**Frameworks/Libraries:** React.js, Next.js, Vue.js, Angular.js, .NET, Django