GARRETT WILLOUGHBY

Hamden, CT | 203-654-1701 | garrettwilloughby@gmail.com | https://garrettwilloughby.github.io

EDUCATION

University of Connecticut *May 2025*
Bachelor of Science in Computer Science, Minor in Mathematics *Storrs, CT*
GPA: 3.67/4.00

WORK EXPERIENCE

Software Engineer Intern *May 2024 - Aug 2024*
Hubbell Incorporated *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 Engineering Teaching Assistant *Aug 2024 - Present*
University of Connecticut *Storrs, CT*
- Aiding in teaching topics such as branching strategies, CI/CD, and AGILE methodologies to reinforce good software engineering practices.

Software Engineer *Nov 2023 - Present*
Kinesiology Research Lab *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 *May 2023 - Aug 2023*
Atlantic Fabrication Company *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).

TECHNICAL SKILLS

Languages: Python, HTML, CSS, JavaScript, C, C#, C++, SQL, VBA, Terraform, YAML
Tools & Frameworks: Git, AWS, Azure DevOps, React.js, Next.js, Vue.js, Angular.js, .NET, Django