

GARRETT WILLOUGHBY

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EDUCATION

University of Connecticut

May 2025

Bachelor of Science in Computer Science, Minor in Mathematics

Storrs, CT

GPA: 3.67/4.00

Extracurriculars: Husky Developers, Cantonese Student Association, Vietnamese Student Association, Fishing Club, Intramural Volleyball, Outing Club

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, TensorFlow, Figma

WORK EXPERIENCE

Software Engineer Intern

May 2024 - Aug 2024

Hubbell Incorporated

Avon, CT

- Enhanced .NET API endpoints to facilitate seamless data integration between the front-end, back-end as well as data provider.
- Developed a responsive and user-friendly front-end using Angular, optimizing user experience and highlighting crucial data points.
- 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

- Guiding the learning of software design, branching strategies, CI/CD, cloud computing, and AGILE methodologies for labs of 20+ students to reinforce good software engineering practices.

Software Engineer

Nov 2023 - Present

Kinesiology Research Lab

Storrs, CT

- Currently developing the P3-EX web application using Next.js and a Django back-end for prescribing exercises to cardiovascular patients.
- Collaborated with healthcare professionals to implement intuitive user interfaces tailored to industry needs.
- Developed RESTful APIs for seamless patient data exchange between the front-end and back-end.

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 in Excel using VBA to enhance communication efficiency and tracking.

PROJECTS

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

- Chinese flashcard app made using React and Django delivering a smooth learning experience across desktop and mobile users.
- Integrated SpeakSynthesis, Translation and RESTful APIs to enhance overall experience.
- Incorporated TensorFlow models for real-time pronunciation analysis, providing users with vital feedback for improvement.
- Engineered a SuperMemo2-inspired algorithm to optimize memory retention and improve learning efficiency for users.

Course Registration Web Application | Vue, Node.js, AWS

- Student administration website mock using VueJS for the front-end and leveraging AWS services (S3, DynamoDB, Lambda functions, API Gateway) for a scalable and efficient back-end solution.
- Implemented five core features including user authentication, course management, schedule viewing, and class/professor creation, catering to distinct user roles to enhance functionality and user experience.