Daniel Misherky

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Education

University of South Florida (USF) — Tampa, FL
Bachelor of Science in Computer Science — *Expected Graduation: May 2027*
GPA: 4.00/4.00

Skills & Activities

Languages: Java, Python, C/C++, SQL (MySQL/MSSQL), MongoDB, JavaScript, HTML/CSS, Arduino
Frameworks: React, Next.js, Express.js
Developer Tools: Git/GitHub, VS Code, Visual Studio, AWS, Microsoft Office
Libraries: pandas, NumPy
Student Organizations: Association of Computing Machinery, IEEE Computer Society at USF, Society of Hispanic Professional Engineers, USF Game Development Club

Projects

Full-Stack Weather Application | *HTML, CSS, JavaScript, Python, Express.js* [dmish13.github.io/weather-app]

- Enhanced user experience by developing dynamic **UI** features, including weather-condition–adaptive backgrounds and fully responsive, **mobile-optimized design**, increasing user engagement and **accessibility** across devices
- Engineered a robust full-stack weather application leveraging a **JavaScript** frontend and **Express.js** backend, integrating real-time weather data via the **OpenWeatherMap API** and secure environment variable management with **dotenv**
- Designed and implemented intelligent search functionality, generating a comprehensive **JSON** dataset of global cities using **Python pandas** and delivering instant, user-friendly autocomplete suggestions for seamless location search

Autonomous Robot | *Arduino*

- Led a team of **five** to design and build an autonomous robot using Arduino and H-Bridge motor drivers, successfully meeting strict project constraints of under **$40** total cost and a compact **6" x 6" x 6"** form factor
- Developed optimized control code and coordinated project planning, detailed cost estimation, and strategic task delegation to effectively leverage team strengths and ensure successful on-time delivery
- Earned a panel judge score of **14.3/15** for outstanding functionality, speed, innovation, and ease of assembly

Portfolio Website | *React, Next.js, Tailwind CSS* [danielmisherky.vercel.app]

- Optimized performance, **SEO**, and **accessibility**, applying responsive design, **semantic HTML**, and **Next.js** server-side rendering to significantly enhance user experience and engagement across all devices
- Developed and successfully deployed a fully responsive and highly interactive portfolio website using **React**, **Next.js**, and **Tailwind CSS**, hosted on **Vercel** with automated **CI/CD** workflows for continuous updates and maintenance
- Implemented interactive features including dynamic **Framer Motion** animations, custom project showcases, and an intelligent contact form integrated with the **Web3Forms API** for secure and efficient submissions

Experience

Tech Team Volunteer — October 2020 – Present
First Baptist Church New Port Richey — *New Port Richey, FL*

- Ran multimedia installations for live events for **hundreds of attendees**, which supported efforts that raised over **$3,000**
- Delivered technical support to ensure optimal performance of AV equipment during services and special events
- Collaborated closely with team members and event coordinators to achieve seamless event execution

Honors & Awards

Dean's List — Fall 2024, Spring 2025

- Achieved the minimum 3.9 GPA throughout the semesters of Fall 2024 and Spring 2025

USF Presidential Scholarship — August 2024 - Present

- Achieved due to being a Florida resident with high academic excellence and test scores

Microsoft Office Master — May 2022 - Present

- Achieved the certification requirements for Excel, PowerPoint, Word, and Outlook