DAVID SALAS CARRASCAL

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EDUCATION

Georgia State University | Atlanta, GA
Bachelor of Science, Computer Science   May 2026
- GPA: 3.6: Software Development, Data Structures, Operating Systems, Database Management Systems

SKILLS

Languages [HTML, CSS, JavaScript, TypeScript, Python, Java, C, SQL, Bash**] Tools [**Git, GitHub, GitHub Actions, Netlify, Docker, AWS, MySQL, PostgreSQL, MongoDB, Postman, npm, pip**] Frameworks & Libraries [**React, Express.js, Node.js, Flask, Spring Boot, Tailwind CSS**]**

WORK EXPERIENCE

CodePath | Tech Fellow | Atlanta, GA   Aug 2025 - Present
- Led weekly 1:1 check-ins for 20 students, troubleshooting project challenges and clarifying HTML, CSS, and JavaScript fundamentals to successfully guide the entire cohort to 100% project completion.
- Drove program growth and student retention by recruiting 40 new members in 2 months through university events, while simultaneously facilitating 10 technical workshops (HTML, CSS, JavaScript, Git) for a cohort of 20 students.

SHPE | Software Development | Atlanta, GA   Aug 2024 - Present
- Built 12+ Arduino projects (e.g., radar with ultrasonic sensors, false Wi-Fi for cybersecurity, RFID security check) using C++ and Python to teach microcontroller concepts, resulting in a **25% increase in member retention.**
- Led a team of **3 developers** to launch the GSU SHPE chapter's online presence, implementing **JSON-LD schema** for better search visibility, increasing exposure to companies, and securing **$1,500 in sponsorships.**
- Assisted **10+ SHPE members** during office hours with Python assignments in Data Structures & Algorithms and System-Level Programming, resulting in **average scores of 90%.**

PROJECTS

Coffee Canvas |React, Express, PostgreSQL, API | GitHub   Oct 2025 - Oct 2025
- Developed a full-stack coffee customization platform (**React**, **Express.js**, **PostgreSQL**) enabling users to create, save, edit, and delete (Full CRUD) custom drink recipes.
- Engineered complex frontend business logic, including a **dynamic real-time price calculator** and **intelligent form validation** that conditionally disables incompatible options (e.g., roast type for espresso).
- Designed and debugged the **Express.js RESTful API**, resolving critical 404 errors in update controllers and correcting malformed **SQL** (INSERT/UPDATE) statements to ensure data persistence.
- Implemented dynamic CSS theming that instantly transforms the app's entire visual identity (from "hot" to "iced" themes) based on user selection, while creating data helper utilities to map database IDs to human-readable names.

QR Generator | Python, HTML/CSS | GitHub | Livesite   Nov 2024 - Sep 2025
- Developed and deployed a **Flask-based** web application for retail clients, generating over 500 unique QR codes using **Python** libraries (qrcode, Pillow) to enhance brand visibility on business cards.
- Reduced QR code rendering time by 10% and improved user interaction by designing and deploying a lightweight, responsive **HTML/CSS** frontend.
- Engineered a 90% improvement in system efficiency by implementing per-session file management, which successfully isolated user data and automated backend file cleanup.
- Increased code maintainability and cut redundant backend logic by 50% by refactoring core processes into reusable Python helper functions, and scalability for future updates.

The Spotter Zone | React, PostgreSQL, Git | GitHub | Livesite   Apr 2025 - May 2025
- Built a responsive single-page application that supported 10 users with dynamic routing using **React Hooks** and **React Router**, enabling seamless navigation and user engagement.
- Integrated **Supabase Auth** for secure authentication, managing 10 user accounts, and ensuring real-time data storage and querying with a **PostgreSQL backend**.
- Styled and optimized UI with **Bootstrap**, achieving mobile-first responsiveness and accessibility for all users.
- Deployed the **frontend** on **Netlify** with **CI/CD workflows**, reducing deployment time by 30% and ensuring consistent version control via **Git** and **GitHub**.

Employee Management System | Java, Bootstrap, Spring Boot, API | GitHub   Apr 2025 - May 2025
- **Spearheaded** a 4-person team in developing an enterprise-ready Employee Management System; the **React** frontend, optimized with **Vite** and styled with **Bootstrap**, streamlined complex employee data management tasks.
- Engineered a **highly scalable RESTful API** using **Java Spring Boot**, designing it to efficiently manage high-volume concurrent requests and ensure secure, stateless communication with the **MySQL** database.
- Architected a **scalable database schema** and optimized complex SQL queries using DBeaver, guaranteeing data integrity and establishing a foundation for future system expansion.
- Applied **Clean Architecture** principles and rigorous **Git/GitHub** version control workflows, delivering a maintainable, testable backend and a user-centric interface built for enterprise adoption.