

# Ayda Gonzalez, MS

Fullstack Software Engineer

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Software Engineer with a robust scientific background and expertise in JavaScript, Python, and full-stack development, blending methodical problem-solving with creative solutions. Eager to leverage technical skills in dynamic engineering roles to enhance user experiences and empower communities through innovative technology.

## TECHNICAL & INTERPERSONAL SKILLS

**Programming Languages:** JavaScript, Embedded JavaScript, Python, SQL, HTML, CSS, R

**Libraries, Frameworks, & Databases:** React, Node.js, Express.js, Django, Materialize UI, MongoDB, Mongoose, PostgreSQL

**Other:** CLI, OAuth, RESTful Routing, JSON, GitHub, VS Code, Trello, Lucid, Microsoft Office, Electronic Medical Records Systems, Project & Administrative Management, Data Wrangling, SQL Database Management, RedCap, LabArchives

**Interpersonal Skills:** communications skills, teamwork, problem solving, mentoring, leadership

## SELECTED SOFTWARE DEVELOPMENT PROJECTS

**Date Night App** - [GitHub](#) | [App](#) - **Mongo** | **Express** | **React** | **Node** | **Auth** | **Materialize UI** | **Lucid**

- Engineered a full-stack social activities hub application that integrates Yelp and Ticketmaster APIs for dynamic activity planning using MongoDB, Express, React, and Node (**MERN stack**), completed within 1 week
- Implemented full **CRUD** operations across all **RESTful API** endpoints to enhance app functionality, alongside secure token-based authentication for robust user authorization and security

**Connection Farmer** - [GitHub](#) | [App](#) - **Materialize** | **Python** | **Django** | **PostgreSQL**

- Collaborated with a team of 3 developers to create a **job and event tracker** application using **Django** to enable reliable access and storage (**PostgreSQL**), focusing on robust user data management and secure authentication
- Integrated secure authentication and authorization features for users using the Django framework

**Bookshelf** - [GitHub](#) | [App](#) - **JavaScript** | **CSS** | **Mongo** | **Express** | **Node** | **Google OAuth & Books API** | **Lucid**

- Engineered a full-stack web application using MongoDB, Express, and Node.js (**MEN**) to enable book enthusiasts to manage their reading lists and write reviews
- Implemented **Google OAuth** for secure, session-based user authentication and integrated the **Google Books API**, enhancing book search functionality and user interaction with full **CRUD** operations via RESTful APIs

## PROFESSIONAL EXPERIENCE

**General Assembly**, remote | **Software Engineering Immersive Fellow** 2024 - 2024

- Completed an intensive Software Engineering Immersive program, focusing on full-stack development skills including modern frameworks and languages, and best practices in software engineering
- Engaged in hands-on projects that simulated real-world software development scenarios, strengthening skills in coding, debugging, and deploying applications through collaborative and individual efforts

**Mass General Brigham Hospital**, Boston, MA | **Cardiology Research Coordinator I & II** 2022 - Present

- Utilize software tools including Epic, REDCap, and LabArchives for data management in clinical trials, encompassing patient record verification, health data collection, survey management, and financial oversight
- Develop and maintained data visualizations and comprehensive spreadsheets, enhancing analysis and publication of research data in heart and kidney transplant studies
- Manage data-driven coordination and quality assurance across 50 global sites, leveraging software for streamlined communication and immediate analysis of study data

**Emory University**, Atlanta, GA | **Graduate Researcher** 2018 - 2021

- Designed, developed, and executed molecular cloning, protein engineering, and biophysical characterization analysis techniques of nanotubes and expressed proteins using biomolecular techniques
- Established scientific methods and coordinated project goals through planned experiments, data interpretation, and report analysis to develop answers to critical questions in scientific study

## EDUCATION

**General Assembly** | **Software Engineering Immersive** 2024

- Full-stack software engineering 500+ hour program focused on product development fundamentals, object-oriented programming, MVC frameworks, data modeling, and team collaboration strategies

**Emory University** | **Master of Science, Chemistry** 2021

- Thesis:** Designing and Engineering Self-Assembling Systems to Control Quaternary Structures

**Bard College** | **Bachelor of Arts, Chemistry** 2016

- Thesis:** Measuring Glucose Levels in Tears as an Alternative to Blood Glucose levels