PEDRO GUITIAN

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Education

Marist University   **Expected Graduation: May 2027**
Bachelor's in Computer Science — Software Development Concentration and AI Minor   *Poughkeepsie, NY*

- Marist Presidential Scholar — **GPA: 3.92/4.0**
- Dean's List — **Spring 2024 - Spring 2025**
- Courses: Software Development I & II, Data Structures & Algorithms, Database Management, System Design, Internetworking, Discrete Math, Calculus, Theory of Programming Language, Artificial Intelligence Literacy

Work Experience

Marist University School of Computer Science   **Sep 2025 – Present**
Programming Tutor   *Poughkeepsie, NY*

- Tutored **50+ undergraduate students** in Python, Java, JavaScript, and SQL by breaking down core programming concepts into step-by-step exercises, resulting in a **30% improvement in average exam scores**
- Led bi-weekly **Database Management** sessions using **SQL queries** and **schema design** in **MySQL**, enabling students to resolve **90%** of project errors independently and improve assignment grades
- Supported **JavaScript** project builds by teaching **DOM manipulation, event handling, and async functions**, enabling students to deliver **100% of group projects on schedule**

Travelers Insurance   **Jun 2025 – Aug 2025**
EDP — Software Engineer Intern   *Hartford, CT*

- Designed and integrated **Swagger UI** into a **Node.js** backend, writing detailed OpenAPI specs for **10+ RESTful** endpoints, which increased backend testing speed by **20%** for the internal stewardship tool
- Built a custom **Express server** to route **Swagger-generated** requests to **AWS Lambda** functions, improving backend modularity and enabling easier **API** mocking and testing during development.
- Enhanced **CI/CD pipeline** in **GitHub Actions** by implementing **TypeScript/Jest** unit tests for all **Lambda** handlers, increasing automated test coverage from **16%** to **100%**, ensuring safer deployments

Projects

Cramora AI | *Waitlist* | *Source Code*   **Django | JavaScript | PostgreSQL**

- Built a **full-stack web app** with **Django, JavaScript, and PostgreSQL**, integrating **AI** features to help students prepare for exams last-minute. Reached **100+** waitlist sign ups
- Implemented **Redis-RQ background task queues** for async **AI** calls, cutting perceived wait times by **60%**

Auction Marketplace | *Source Code*   **Django | SQLite**

- Built a **full-stack** auction web application, using **Django**, enabling live bidding and watchlist features
- Designed **relational database models** in **3NF** using **SQLite** to manage users, listings, bids, and comments

Email Client | *Source Code*   **Django | JavaScript | SQLite**

- Programmed a **full-stack** email application using **Django** and **JavaScript**, implementing **asynchronous** email sending and mailbox updates
- Designed **RESTful API** endpoints to handle **email creation, retrieval, and archiving logic**

Activities

Marist Men's Crew   **Sep 2023 – Jan 2025**

- Athlete for Marist University Men's Crew - committed **25+ hours** per week of training, practice, and competition

Technical Skills

Languages & Frameworks: Python, Java, SQL, HTML5, CSS, JavaScript, Django, React

Tools & Technologies: API/REST, Swagger, Git, GitHub, GitHub Actions, Jira, PostgreSQL, MySQL, CI/CD, MERN, Agile, Object-Oriented-Programming OOP, LLM/AI integration