Louis GomezDiaz

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EDUCATION

MiraCosta College — Oceanside, CA
Associate in Science - Computer Science for Transfer — *Aug. 2023 – Present*
- Relevant Coursework: Data Structures, Web Programming, Discrete Structures, Computer Architecture

WORK EXPERIENCE

ChakraTech — June 2024 – September 2024
Software Development Intern — *San Diego, CA*
- Designed an AWS S3 presigned URL generation service for secure file uploads and dynamic expiration times
- Developed a RESTful API with Go and Chi for file uploads and database interactions
- Implemented dynamic file and video upload forms with real-time preview and delete options using JavaScript
- Transformed the file uploader page into a reusable React component

MiraCosta College — August 2024 – Present
Studetn Aide Intern — *Oceanside, CA*
- Collaborate with a team to redesign the Discrete Structures course, transitioning to a zero-textbook cost model
- Source and integrate open-source materials to enhance accessibility and cost-efficiency for students
- Update course content, including labs, lectures, and other assignments
- Leverage feedback and peer reviews to maintain the quality and consistency of course materials

Araujo Roofing Inc — December 2021 – Present
Secretary — *Escondido, CA*
- Creating proposals, invoices, and contracts for clients with Adobe Acrobat
- Facilitating the preparation and submission of building permits and tax forms
- Negotiating contracts with clients leading to increased sales
- Managing the logistics of deliveries between different construction sites

PROJECTS

ReFrame | *JavaScript, HTML, CSS, JQuery, AJAX, Socket.IO, Node.js, Express.js* — April 2023 – June 2023
- Led a team of three to develop a full-stack web application that allowed users to create text and image posts
- Implemented a 'fake' database using arrays to store all necessary data
- Developed and debugged code that managed the routing of information
- Designed the post containers and account profile interface with CSS and HTML

Sunshine | *JavaScript, MongoDB Atlas, React, Node.js, Express.js* — March 2024 – Present
- A replication of ReFrame with a React framework and MongoDB Atlas cloud database
- Planning to implement the ability for users to upload small videos and GIFs
- Developing a way to upload posts using a queue and to store comments in a linked list
- Redesigning the user interface to appear more seamless

AWARDS

1st in Geocomputational Thinker | SDSU Big Data Hackathon — October 2024
- Managed a team of 4 to develop a way for hospital patients to have access to a greater variety of food options
- Developed the idea using Figma, a web page demo and various diagrams

TECHNICAL SKILLS

Languages: Java, JavaScript, Go, HTML, CSS, FXML, Python
Frameworks: React, Node.js, Express.js
Cloud Services: AWS (S3, IAM, Lambda), MongoDB Atlas
Developer Tools: Github, Visual Studio, IntelliJ, Netbeans, PyCharm
Databases/Libraries: MongoDB, JQuery, AJAX, JSON, Socket.IO, JavaFX, Matpoltlib