

Diego Avila Perles Blanco

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EDUCATION

Rochester Institute of Technology

Bachelor of Science in Computer Science

Rochester, NY

Aug 2020 – May 2024

South Texas College

Associate of Science in Biology

Pharr, TX

Aug 2018 – May 2020

SKILLS

Languages: Java, Python, C, C#, SQL (Postgres), JavaScript, HTML/CSS, Ruby, MIPS Assembly

Frameworks: React, Node.js, Ruby on Rails, Express.js, Angular, Matplotlib, Spring Framework

Developer Tools: Git, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Sublime Text, SVN, Vim, npm, pip, Maven, Make, Slack, Trello

Libraries: D3.js, P5.js, jQuery, Matplotlib

Soft Skills: Bilingual(Spanish, English), Communication, Teamwork, Adaptability, Leadership, Interpersonal Skills

EXPERIENCE

Software Developer

ToughDog Security Systems

Aug 2023 – February 2024

Pharr, TX

- Created and implemented a database system using React, Express, and PostgreSQL to enhance support calls and returns, improving operational efficiency by 30%
- Coordinated the transition from Google-based technologies to an in-house program, optimizing workflows and reducing dependencies by 27%
- Deployed sales and troubleshooting bots using Google Gemini and ChatGPT APIs, enhancing customer engagement and support capabilities by 46%

Full-Stack Developer

Rochester Institute of Technology

Jan 2023 – August 2023

Rochester, NY

- Constructed a D3-based data visualization model to represent vulnerability categories
- Integrated RESTful API endpoints using Ruby on Rails to facilitate real-time data for the visualization model
- Wrote SQL statements to efficiently retrieve vulnerability data, contributing to 15% improvement in streamlined processes

PROJECTS

Identifying Poison Ivy Using Matlab | *React, PostgreSQL, Node.js, git*

Aug 2023

- Developed a MATLAB algorithm for poison ivy recognition using Image Processing Toolbox, achieving 90% accuracy
- Integrated automatic center/surround segmentation and precise edge detection
- Achieved accurate plant classification, demonstrating proficiency in image processing

Tool Sharing Database | *SQL, PostgreSQL, Python*

Aug 2022 – Dec 2022

- Created tool sharing database and app using SQL and Python
- Designed efficient data models, enhancing database organization and improving team efficiency by 37%
- Facilitated seamless app integration, contributing to system enhancement

Secure Messaging System | *C#, .Net*

Aug 2022 – Dec 2022

- Designed and established a secure .NET Core encryption system using RSA
- Leveraged parallel processing techniques in C# to accelerate prime number generation by 60%
- Interacted with a server using HttpClient to facilitate key retrieval and message exchange

E-Store Web Application | *Python Javascript, Trello, Angular.js, Git*

Jan 2022 – May 2022

- Developed Fruit E-store with REST API and Angular, improving admin and customer login
- Resolved front-end and back-end connection issues, enhancing overall application functionality
- Contributed to backend development, optimizing product interactions and system functionality
- Led Sprint velocity meetings, improving project management and workflow efficiency by 58%