

David Rodriguez Sanchez

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Education

Bachelor of Science in Computer Science

Texas A&M University

Expected to Graduate in May 2025

GPA: 3.96

Student Exchange in Computer Science Design

Singapore University of Technology and Design.

January 2024 - May 2024

Experience

Roblox - Software Engineer I

San Mateo, CA

Starting June 2025

Pinterest SWE Intern (*Apache Airflow, AWS S3, Python, Git, CI/CD*)

Remote

May 2024 - Aug 2024

- Developing back-end tools for measuring and protecting advertiser conversions.
- Lead the development of a specialized tool for Pinterest's Data Science team to improve and provide privacy to users. Tool is 2 times faster than the tool previously used.

Undergraduate Researcher (*PyTorch, Technical Communication*)

Texas A&M University, Department of Mathematics

January 2023 - Present

As a researcher in the Department of Mathematics, I was involved in the computation-aspect of various problems related to fluid dynamics.

- Adapted and created a neural network architecture to approximate various equations relevant to the field of fluid dynamics.

Projects

High-Dimensional Physics Informed Neural Network (*Python,*

TensorFlow, LaTeX)

July 2023 - Present

Project undergoing development.

- Developing and upgrading a physics informed neural network model. As of writing, the new HD-PiNN is 10% more efficient than previously.
- Creating and presenting multiple presentations lecturing and talking about my HD-PiNN project.

Bubble Tea Restaurant POS (*pSQL, Java, Vue, Databases, Agile.*)

September 2023 - December 2023

[GitHub Project Repository](#)

- Designed and led the full-stack POS for a Mock-Up Bubble restaurant.
- Managed and maintained deployment of POS.

Rotating Proxy WebScrapper (*AWS-Lambda, Python.*)

August 2024 - Present

Project undergoing development.

- Creating an AWS-based rotating proxy system for web-scraping for large-scale processes.

Suika 3D Game (*C++, OpenGL, Low-Level Graphics, Operating Systems*)

January 2024 - May 2024

[GitHub Project Repository](#)

Courses

Data Structures and Algorithms

Machine Learning

Computational Data Science

Algorithm Design and Analysis

Operating Systems

Computer Systems

Introduction to Network Engineering

Technical Skills

Main Programming Languages:

Python

C/C++

Java

SQL

Technologies:

PyTorch

TensorFlow

LaTeX

Markdown

Vue

Airflow

AWS EC2 Vim Development

AWS S3 Manipulation

AWS Lambda

Languages:

English (Fluent)

Spanish (Fluent)

Japanese (Basic)

References

Pradeep Ramanujan: Pinterest Manager

Email: pramanujam@pinterest.com

Dr. Prabir Daripa: Research Professor

Phone: +1 (979)-204-7995

Email: daripa@tamu.edu

Website

Activities

Texas A&M Exchange Buddy

May 2024 - Present

Society of Hispanic Professional Engineers

June 2023 - Present

Texas A&M Cybersecurity Club

August 2021 - December 2022.