

Jesus Velarde

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Skills

Programming Languages: Python, Javascript/Typescript, C++, C, Java, React, HTML/CSS, SQL
Software/Tools: Git, Docker, AWS, Tailwind, Express.js, Flask, PyTorch

Education

University of California, Santa Barbara

Bachelor of Science - Computer Science

Santa Barbara, CA

July 2020-June 2024

- Cumulative GPA: 3.48
- Dean's Honors (ENGR) - Fall 2022, Spring 2021
- Relevant Coursework: Data Structures and Algorithms, OOP, Advanced Application Programming, Computer Vision, Cryptography, Machine Learning, Database Fundamentals, IoT + Cloud, Compilers, Security
- Extracurricular Activities: Blockchain at UCSB, Data Science Club, Los Ingenieros (SHPE Chapter)

Experience

Freelance Full-Stack Development

Santa Barbara, CA
September 2023-Present

- Design and maintain websites for local organizations in the Isla Vista and Goleta areas.
- Optimize websites for search engines to improve visibility and reach.

Kavli Institute for Theoretical Physics

Computer Assistant

Santa Barbara, CA

June 2023-May 2024

- Assist visitors, staff and faculty with technical issues.
- Automate survey form generation and data collection using Javascript, Python and SQL.

Blockchain at UCSB

Co-Head of Technology

Santa Barbara, CA

August 2022-June 2023

- Developed a static website for Blockchain at UCSB using the Next.js framework.
- Established a certification verification platform for the Blockchain Fundamentals course successfully serving certificates for over 150 participants.
- Crafted and presented lectures to over 100 participants in the Blockchain Fundamentals program.

Personal Projects

Refract (Data Science UCSB)

Santa Barbara, CA
December 2023-May 2024

- Implemented and deployed application to disrupt machine learning training and deepfake models along with four other students.
- Applied the Glaze cloaking algorithm on images of human faces.
- Deployed using AWS' DynamoDB, EC2, Lambda and API Gateway services.
- Won second place in the 2024 UCSB Data Science Club Project showcase.

Hoppin

Santa Barbara, CA

June 2022-Present

- Engineered a web application leveraging React and TypeScript.
- Incorporated Auth0 for robust user authentication.
- Deployed a serverless backend using AWS Lambda functions.
- Conceptualized and implemented a relational database utilizing Amazon RDS.