

## Julio Prudencio

Chula Vista, CA | (619)576-7376 | Pjulio1234@gmail.com | GitHub- Juulio-p

### Education

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#### California State University, San Marcos B.S. in Computer Science [\[View Credential\]](#)

Jan 2023 - Dec 2024

### Work Experience

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#### California State University, San Marcos

Undergraduate Student Research

Nov 2023 - Mar 2024

- Collaborated with mentors to develop machine learning and deep learning models aimed at detecting cyber-attacks using the “Bot-IoT” dataset from the University of Sydney.
- Conducted binary and multi-class classification and analyzed key features for detecting various cyber attacks.
- Utilized confusion matrices and visualizations to ensure training and validation accuracy.

#### Luud & MA1 Amazon DSP, National City / Chula Vista

Delivery Driver

Jan 2022 - Present

- Deliver over 300 packages daily, ensuring timely and accurate deliveries across multiple routes.

### Relevant Courses / Projects

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#### California State University, San Marcos

- **Capstone Project** - Created a functional carpool website for CSU san marcos using web technologies such as typescript and mantine library.
- **Operating Systems** – Built projects involving Unix shells and process scheduling primarily using C++
- **Deep Learning**- Built Phishing detection model as well as a Twitter sentiment analysis model
- **Database Management Systems** – Designed databases using ER diagrams; managed and manipulated tables in SQL Developer; explored basic NoSQL concepts
- **Intro to Networking** - Created a functional TCP client/server chat room using python
- **Intro to Computer Security** - Explored cryptographic principles & Investigated and implemented vulnerabilities such as Buffer Overflow, XSS, and SQL injection.

### Personal Project

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#### [Serverless AWS Website](#)

- Serverless framework using AWS API Gateway, S3 Bucket, Firebase Authentication, Python, DynamoDB
- Frontend - Typescript,CSS, DynamoDB, and Mantine

#### [Prudenciojulio.com](#)

- Hosted On github pages, Built using Javascript and React technologies

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### Skills

**Programming Languages:** Proficient in Java, C++, C, SQL, Python, HTML, CSS, JavaScript, Flask. Familiar with Kotlin, COBOL, Fortran, Scala (immutability with Clojure), Rust, ANTLR, Bash, Git, github

**Operating Systems :** Windows, Arch Linux, Linux Mint.

**Cloud Technologies:** AWS (EC2, Lambda, S3, API Gateway), Azure (VM), Terraform, Serverless Framework.

**Project Management:** Kanban, Scrum (Jira Certified), **Collaboration Tools:** Jira.