

Mauro P. Guerrero

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Occupational Goal:

To pursue a career as a full-time software engineer. Currently looking for internships or co-ops. Working towards my B.S. in Computer Engineering.

Education:

B.S. in Computer Engineering – Texas A&M University	Expected Graduation – May 2022	GPA: 3.87
Associate of Arts – El Paso Community College	Graduated – June 2018	GPA: 3.81

Work Experience:

Google STEP Intern (Remote) Summer 2020

- **Portfolio Website** (<https://mauroguerrero.appspot.com>)
 - Developed personal **portfolio website**, illustrating my education, work experience, and personal projects in a clear and concise webpage. Created website's frontend using **JavaScript**, **HTML**, and **CSS**.
 - Implemented a **comments feature** on my portfolio, allowing users to leave comments on my webpage. Developed using **Java Servlets** for the backend and **Google Datastore** as the project's database.
 - Added a **Geography Map Game** on my portfolio website, which allows users to try to guess a country's location on Google Maps. This feature utilizes the **Google Maps API** and **Geocoding API** for its implementation.
- **BookBook – A Social Media Website for Book Clubs** (<http://sopa-capstone-step-2020.appspot.com>)
 - Collaborated with coworkers to create and design a web application called **BookBook**, which allows users to create and manage book clubs, search for books, and store books they wish to read in a booklist.
 - Led the **DevOps** of the project, I set up the **React frontend** and **Java Servlets backend** integration, and deployment procedures for our project using **App Engine Microservices**. Enabled the connection of our frontend and backend and their separate deployments.
 - Developed the **Login** for BookBook, which allowed us to keep track of a user's info (Clubs, Booklists). This feature was implemented using **Google OAuth 2.0** from an npm package.
 - Implemented the **BookList** feature of the web app, which allows users to create booklist and add books to them, in order to keep track of what books they wish to read. This feature was developed using **Google Firestore** as the project database and **React Bootstrap** (npm package).

Google EP Internship (Sunnyvale, Google Cloud Office) Summer 2019

- **Developing the Test Identity Provider (Idp)**
 - Developed the Test Identity Provider's metadata using **OpenSAML 2.0**, an open-source library used for exchanging authentication and authorization data between parties.
 - Implemented the ability to **update the current Idp's credentials**, allowing admins to upload new public and private keys. The feature was developed using OpenSAML and Google's framework and injector tools.
 - Worked on **encrypting the SAML response** of the Idp using the Service Provider's public key through OpenSAML encryption tools.

Personal Projects:

Face Detection (<https://github.com/MauroGuerrero20/Face-Detection>)

- A C++ program that utilizes **OpenCV** to detect human faces. The program uses OpenCV's default face data to train a Cascade Classifiers to detect faces accurately.

Particle Effect (<https://github.com/MauroGuerrero20/Particle-Effect>)

- A C++ program that uses the **SDL 2.0** library to create a particle effect animation. The program first creates a swarm of pixels and moves them in a circular direction. It then adds a box blur to the swarm and changes the color of the pixels to create the unique particle effect.

Skills:

Programming Languages						Technologies/APIs				Proficiency	
Java	C++	JavaScript	Python	R	Verilog	SAML 2.0	Github	Git	SDL 2.0	OOP	
						OpenCV	React	Firebase	GCP	Web Dev (HTML, CSS)	

Extracurricular Activities:

Aggie Coding Club	Fall 2019 – Present
Cybersecurity Club	Fall 2019 – Present
Society of Hispanic Professional Engineers	Fall 2017 – Present