

## Sammy Portillo

US Citizen

Danville, CA 94506

510.246.5504



<https://www.linkedin.com/in/sammy-portillo-zyxe>



<https://sammyportillo.github.io/portfolio/>

### PROFESSIONAL EXPERIENCE:

#### **Software Engineer: 11/2021– 02/2023. Agilent Technologies (Volt Workforce), Santa Clara**

Developed a full stack data dictionary API Angular application.

Using Docker, Docker compose, pgAdmin, PostgreSQL db, SQLAlchemy, uvicorn, Nginx, FastAPI, FastAPI routing, web scraping, BeautifulSoup, Metabase, Python, PEP8, Angular 15, Angular Material, Angular Directives, Typescript, AG-Grid, Chart.js, Windows, Mac, Linux, MS Outlook, MS Teams, Sharepoint, Jira Software, Git, Github, Bitbucket.

#### **Senior Software Engineer: 08/2001 – 11/2021, BEAR, Hayward, caBEAR.com**

Credit Card Logging, tracking, & validation application:

Developed a full stack Django application on Amazon's AWS EC2 Linux instance.

Regularly scheduled web scraping to automatically import credit card bank statement transactions.

Credit card logging ( amount, vendor, customer repair order, vendor invoice ), updating, tracking, & (automated) linking each log to a credit card bank statement transaction.

Reports reveal unlinked rogue credit card transactions.

Imports Repair Center Payables.

Reports confirm purchased credit card costs are covered & marked up in customer repair orders.

Sqlite data can be imported & exported for backups & restoration.

Using Nginx, Gunicorn, python 3, sqlite3, sql, bootstrap, html, Javascript, git bash.

<https://github.com/2020dataanalysis/CAP.git>

IOT Security Application:

Flask-SocketIO microservice using a Raspberry Pi & micro controllers wired with door sensors & LoRa transceivers. Presence detection utilizes a micro controller that scans for BLE beacon devices and forwards the ids via Bluetooth. Presence detection is optionally confirmed utilizing an Android app with a foreground service that has socket & GPS permissions. The Raspberry Pi hosts a web page with SVG graphics that asynchronously updates door events that triggers the alarm to receive email & text alerts. Developed with Flask-SocketIO, Python, LoRa, Zigbee Door / Window sensor, Zigbee Door lock, MQTT, Zigbee2MQTT, esp32, M5Stack, Hall effect Sensors, Reed switch, SMTP, Bluetooth, BLE, serial, C++, socket, Android notifications, Android broadcasters, Android receivers, Android Studio, Java, Javascript, XML, Visual Code, git bash.

<https://github.com/2020dataanalysis/Sentinel.git>

Designed & developed a windows GUI payroll application:

Imports employee time clock data to process payroll accounting for sick/holiday pay. (Qt, C++)

Designed & developed a surface estimating windows GUI tree application. (C++)

Developed & lead junior developers, maintained, & provided SEO for <http://caBEAR.com>

Technical support – MS Server client/server LAN networking, TCP/IP, email migration, ...

Developed Windows GUI Telemarketing & Tracking application.

Designed & developed a Fleet Maintenance application for a commercial truck mechanical service center.

Developed with Visual InterDev, Front Page, MS SQL Server, Active X Objects (ADO), SQL, ASP, Javascript, css & frames.

Developed (now deprecated) web site <http://BayRVs.com>

**Software Engineer:** 05/2001–07/2001 Babcock & Brown, San Francisco, CA

Full Stack: Developed an intranet based financial application (Capital Investment Manager).

Imported data & updated Active Server Pages for a Human resource application, MyHRIS.

(Visual InterDev, IIS, MS 2000 Server, NT, Enterprise Manager, Stored Procedures, SQL Server Profiler, SQL Server Backup & Restore, OLEDB, ADO, SQL, ASP, Javascript, VB Script, Active X Objects, FlexGrid, NT, SQL Server).

**Software Engineer:** 07/2000-09/2000 VISA (Ziba Group), Foster City, CA

Full Stack: Designed & developed prototype dispute process for VISA based on a set of criteria & updates.

(Visual InterDev, MS Access, ADO, SQL, ASP, Javascript, VB Script, Active X Objects, frames, Flexgrid, FTP services.)

## **PERSONAL EXPERIENCE:**

**Software Engineer:** 01/2021– Present. Freelance Algorithmic Trading

Python, splinter, OAuth 2.0 API, RESTful API, REST API, selenium, Tkinter, json, pandas, matplotlib, web sockets, MySQL database, data science, machine learning, linear regression, Bayes' theorem, git bash.

<https://github.com/2020dataanalysis/charting.git>

**Software Engineer:** 12/2019–01/2020 Freelance Desktop GUI Tax Application

Visual Studio 2019, Python, tkinter, pandas, git bash

<https://github.com/2020dataanalysis/Sax.git>

**Software Engineer:** 01/2019–12/2019 Freelance IOT Project

Cross platform OS & multi threaded socket server & client applications.

<https://github.com/2020dataanalysis/VIPMe.git>

## **EDUCATION:**

2020 CSUEB: MSCS, Master of Science in Computer Science **GPA = 4.0**

2015 Chabot College: AS, COMPUTER SCIENCE

2015 Chabot College: AS, MATHEMATICS

2000 Chabot College: AS, ELECTRONICS & COMPUTER TECHNOLOGY

1992 San Diego State University: BS, FINANCE

### FULL STACK TECHNICAL SKILLS grouped by Years of Experience:

Skills	1	2	3	4	5+
<b>Programming Languages</b>	Pearl, Java Servlets, Java FX, Java Server Pages, JSP, Pytorch	Java Swing	Shell, PHP, Node JS		Python, C++, C, Java 6 – 16, Javascript, SQL
<b>Java Enterprise Edition</b>	EJB, MDB, JMS		JDBC		
<b>Frameworks</b>	Unity, Spring	ASP.net	Qt, Pi4J	Flask, Django	
<b>Databases</b>	Oracle, Sybase, MongoDB	MariaDB		MS Access	MS SQL Server, MySQL
<b>Application and Web Servers</b>			Apache Tomcat, Apache Web Server		
<b>Web Technology</b>	JSP	Web Sockets, JSON	ASP, XML	DHTML	Wordpress Web Services, HTML, CSS
<b>Development Tools/Utilities</b>	Junit	Eclipse, IntelliJ, Jupyter Notebook	Android Studio, Qt, Atom		Visual Studio, Visual Studio Code, PyCharm
<b>Version Control</b>		Jira			Git, Github, Bitbucket
<b>Issue Tracking Tools</b>		Google Search Console			
<b>Other Tools</b>	MS Visio, Crystal Reports, Autodesk 3ds Max	High Charts		MS Project, Tkinter	MS Office, Notepad++
<b>Operating Systems</b>				Raspbian	Unix, Linux, Windows, Mac OS
<b>E-commerce</b>	Cybercash, Authorize.net				
<b>Internet Of Things (IOT)</b>	Electronics Work Bench, High Charts	embedded systems,	Scopemeter, BLE, Bluetooth, BLE, BLE UART	AWS, Android, MQTT, SparkFun, LoRa	Raspberry Pi, ESP32, M5Stack
<b>Data Science &amp; Machine Learning</b>	scipy, PyTorch, Tensorflow	scikit-learn, matplotlib	Anaconda, pandas, numpy		