Victor Rodriguez

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Technical Skills

Languages: Java, Python, C++, C#, Golang, Dart, SQL, HTML, JavaScript, Prolog, Kotlin, MySQL, PostgreSQL
Libraries / Frameworks: Unity, Hashicorp Vault, Pytest, MongoDB, Node.js, Selenium, Django, Flutter, Syncfusion
Developer Tools: Git, Docker, Jenkins, Jira, VS Code, Linux, Terraform, Bash, Visual Studio, Shell

Experience

Bloomberg Jul 2022 - Feb 2024
Software Engineer *New York, NY*

- Developed a low-latency, highly reliable cloud-based SAAS platform using **Golang** and **Hashicorp Vault**, supporting 30+ critical trading teams with secure microservices.
- Created a REST API for internal clients by gathering business requirements, promoting seamless integration within our internal cloud infrastructure, increasing adoption rates by **60%**.
- Automated deployments with **Docker** and CI/CD pipelines, reducing release time by **3 hours.**
- Enhanced code maintainability with **Python** unit tests, TDD, and automated testing frameworks.
- Implemented telemetry and dashboards with **Splunk** and **Grafana** for fast production monitoring and troubleshooting.

BNY Mellon Jun 2021 – Aug 2021
Full Stack Developer Intern *Remote*

- Built a web app for 5,000 admins to improve risk management and reporting.
- Collaborated with DBAs and stakeholders to resolve database access issues and implement monitoring.
- Quickly learned HTML, CSS, JS, UI/UX, and worked in a legacy codebase to deliver features.
- Automated reporting scripts, reducing manual work by 30%.

College of Engineering CSULB Jun 2020 - Jun 2021
COE EXCEL Peer Mentor *Long Beach, CA*

- Mentored 5-9 freshmen per semester on STEM topics, growth mindset, teamwork, and accountability.
- Led weekly workshops and study sessions, providing guidance on CS fundamentals, OOP, algorithms, and data structures. Debugged and reviewed student code to improve learning outcomes.

Projects

Embedded BLE ECG Event Monitor and Real-Time App | C++, Dart

- Designed a rechargeable ESP32-based ECG monitor integrating SparkFun AD8232, Adafruit TPS61023 boost converter, & a TPS4056 battery charger; streamed BPM and ECG signals via BLE to Flutter app.
- Applied **DSP techniques**, such as FIR and Kalman filters, to reduce motion artifacts, reduce noise, and improve real-time ECG accuracy.
- Implemented **FreeRTOS** tasks for dual-core processing: one for ECG acquisition and filtering, the other for BLE data streaming to prevent dropped samples.
- Developed Flutter app with **Supabase** backend for secure authentication, cloud storage, and real-time session visualization using **Syncfusion** charts.
- Integrated timestamped ECG & BPM packets over BLE, designed efficient packet structure to minimize latency and support real-time charting.

Education

California State University Long Beach Long Beach, CA
B.Sc. Computer Science *Aug 2018 – May 2022*
GPA: 3.5

Awards & Leadership

Academic Chair Society of Hispanic Professional Engineers
California State University Long Beach *Aug 2021 - May 2022*