Cristina Villarroel

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EDUCATION

Georgia Institute of Technology, *Online* ***Exp.* Dec 2025**
Master of Science in Computer Science specializing in Machine Learning

Florida International University, *Miami, FL* **Dec 2019**
Bachelor of Science in Computer Science

SKILLS

Programming Languages: Java, Python, C#, Javascript, Typescript, SQL, C++, C,Dart, HTML & CSS
Tools & Frameworks: Spring Boot, Angular, React, Vue JS, Flutter, Android Studio, React Native, Docker, JUnit, Karate, Jenkins, Git, Jira, Azure DevOps, .Net, JetBrains IDEs, Google Cloud APIs, Firebase, Locust

EXPERIENCE

Visa, *Sr. Software Engineer* **Miami, FL | Aug 2021 - Present**

- Engineered three new APIs for the Visa Card Benefits Marketplace using **Java**, **Spring Boot**, **Angular,** and **DB2** to enable benefit retrieval based on card's information resulting in enhanced platform usability, which drove increased client adoption across the LAC region.
- Designed an interactive guide for Visa Installment API and conducted 15+ training sessions using **React**, **JavaScript**, and **NextJS** which improved client onboarding and reduced integration time for use cases.
- Developed and Patented an NFC reader mobile app using **Dart, Android NFC SDK,** and **Flutter**, enabling cardholders to use their devices as POS systems and as a P2P transaction app with Visa Direct and Visa Transaction Service APIs.
- Worked on a universal dashboard in **React** and **TypeScript** to display live transactional data and send threshold based notifications which allowed us to successfully onboard five new LAC-region clients, and lead to strong adoption and positive feedback.
- Built transaction history and notification features for a financial management app using **C#**, **.NET,** and **Flutter** which helped parents manage children's spendings. We launched a functional prototype, performed user research, and got positive feedback from users and clients.
- Led co-creation sessions to design and implement Visa product-driven solutions which enhanced product-market fit and improved customer satisfaction based on client's need.
- Implemented an automated CI/CD pipeline using **Jenkins**, **Azure/Bitbucket**, and **Docker** for multiple applications, which integrated with comprehensive testing and performance monitoring tools. This accelerated deployment cycles by 30% and improved system performance by 25%.

Visa, *Software Engineer* **Remote | Mar 2020 - Aug 2021**

- Migrated the pre-built SLiMS solution to a custom web app using **Angular**, **Java**, **Spring Boot,** and **Visa's Design Library**, eliminating the dependency on IBM licenses and realized annual cost savings.
- Enhanced features in VisaNet SLiMS repository application with **Java**, **Spring Boot**, **Gradle**, **DB2** which Improved product efficiency by 10% and streamlined processes for 50+ teams.

Natural User Interaction Lab at FIU, *Research Assistant* **Miami, FL | Sept 2017 - Dec 2019**

- Led a team of senior students to develop a **VR** educational tool using **Unreal Engine**, **HTC Vive**, and **Leap Motion SDK** to simulate ASL learning environments, resulting in positive feedback during user testing.
- Implemented **KNN** and **Support Vector Machine** algorithms in **Unity** and **C#** to classify hand gestures from a database, which improved recognition speed and accuracy, enhancing real-time usability.
- Developed an app using a **Leap Motion** device to recognize ASL gestures and translate them into English text. Conducted user research and achieved 80% detection accuracy, improving accessibility for users.

PROJECTS

CookEasy, *Lead Developer* **January 2025**

- Developing a mobile app and API using **React Native**, **Node.js**, **MongoDB**, **OpenAI API**, and **AWS** to suggest **ChatGPT** based recipes on available kitchen stock ingredients.

Engage Your Environment Safely (EYES), *Product Owner and Lead Developer* **January 2020**

- Built an **Android** app using **Java**, **Microsoft Computer Vision**, and **Google ML Kit** to identify objects, scenes, colors, and text in real time which resulted in user independence and made navigation safer for Visually Impaired users.