

CONTACT INFORMATION

Location: San José, Costa Rica
Phone Number: 8313-1714
Email: santilizarazo2001@hotmail.com
Identification Card : 1 1812 0664
LinkedIn:

<https://www.linkedin.com/in/santiago-lizarazo-mikly-6523121b9/>

Date of Birth: 05/22/2001

Portfolio:

<https://portfolio-3d647.web.app>

GitHub:

<https://github.com/SantiagoLM01>

English Fluency Level: Advanced (C1)

Skills

- C
- C++
- Python
- Verilog
- NodeJS
- ExpressJS
- MongoDB
- MySQL
- SQL Server
- C#
- .NET
- PowerBi
- MQL
- Vue
- Nuxt
- Django
- HTML5
- CSS
- SASS
- BootStrap
- TailWindCSS
- JavaScript
- React
- Angular
- TypeScript
- Blazor
- Git
- KQL
- Azure
- AWS
- PowerShell
- Sharepoint (SPFX)

Testing

- Jest
- Cypress
- Moq
- xUnit

Education

Universidad Latina de Costa Rica
Electronic Engineering Bachelor
2019-2024

Mount View School
Bachelor Highschool Diploma
Graduated on 2018

SANTIAGO IVAN LIZARAZO MIKLY

Electronic and Software Engineer

PROFESSIONAL EXPERIENCE

Microsoft

Software Engineer Intern

February 2024 - August 2024

- Implemented AI architecture leveraging GPT-4o LLM with Retrieval-Augmented Generation (RAG) to analyze and interpret wikis and code repositories from Azure DevOps, enabling precise information retrieval and query responses through an AI Bot.
- Developed an AI Bot using Python and C#, utilizing LangChain (in Python) to enhance the searchability of documentation related to internal processes and code repositories of the company.
- Tailored the AI Bot to meet the specific needs of the engineering team, utilizing text embedding models like text-embedding-002 for document vectorization.
- Integrated the AI Bot into Microsoft Teams, allowing team members to pin the bot and receive responses containing information on documentation and code.
- Automated daily updates to the vector database, ensuring the bot remains aware of newly ingested information and maintains accurate search capabilities.
- Enhanced the RAG process using KNN-Exhaustive search, HSNW search, cosine similarity, vector search, and semantic ranking techniques.
- Used Kusto Query Language (KQL) for efficient data querying and management.
- Worked closely with Azure Services including Azure Data Factory, Azure Data Explorer, Azure Open AI, Azure Web Apps, Azure Storage Account, Azure Functions, and Azure AI Search.

FXZIO

Full Stack Web Developer

November 2023 - July 2024

- Developed a tailored trading calculator for MetaTrader 5 (MT5) using MetaQuotes Language (MQL), a C++ framework for creating applications for MetaTrader.
- Contributed to the Nuxt/Vue project for the Fxzio website, developing complex UI components and enhancing functionality.
- Utilized PostgreSQL to store and manage high volumes of user information for the website.
- Built a backend system in Django to manage MetaTrader accounts, handling trades, deposits, and withdrawals.
- Integrated MetaApi to connect to the MetaTrader terminal, enabling real-time trade execution and querying of trading account information.
- Managed AWS services for project hosting, utilizing S3, EC2, ECS, ECR, RDS, IAM, and Lambda.
- Employed Docker to build project images and deploy them to AWS.
- Implemented Redis for caching, improving the performance of various backend service endpoints.
- Developed CI/CD pipelines using YAML scripts in GitHub Actions to streamline deployment processes.

SOFT SKILLS

- Quick learner and able to comprehend information of multiple programs/processes.
- Ability to stay calm and collected when dealing with difficult situations.
- Exceptional organizational and problem-solving skills; keen attention to detail.
- Strong team player but willing to speak up and share ideas.
- Ability to identify root cause of an issue and offer ways to resolve it.
- Self-motivated in a cross-functional, fast-paced, and dynamic environment.
- Ability to adapt to quick changes for better results.

INFORMAL EDUCATION

- *Proficient in Spanish and English.*
- *Have excellent domain on Microsoft Office programs such as Excel, PowerPoint, OneNote, Outlook, Publisher, Microsoft Access, and Skype for Business.*

LightSpeed Tech Development

Sharepoint Developer

July 2023 - November 2023

- Implemented SharePoint Framework (SPFx) on SharePoint On-Premises, enhancing the tech stack architecture with modern technologies like React and TypeScript.
- Worked closely and in depth with React, TypeScript, Webpack, and Gulp.
- Utilized Microsoft's tech stack to develop and maintain high-quality front-end solutions, ensuring optimal performance and user experience.
- Expanded webpack functionalities with Gulp within the SPFx framework, streamlining the build process and improving overall development efficiency.
- Collaborated with team members using Agile and Scrum methodologies to develop and implement cutting-edge risk management software, promoting digitalization and internal control.

Bosch

Full Stack Web Developer

January 2023 - July 2023

- Develop an algorithm to significantly enhance performance for a customer service internal tool for BMW clients, reducing loading time by 80% when uploading large Excel files into the database.
- Demonstrated expertise in developing and optimizing large-scale web applications using a diverse tech stack, including Angular, Node.js, C#.NET, MySQL, and MongoDB, ensuring optimal performance and user satisfaction.
- Resolved performance-related challenges by leveraging troubleshooting skills and addressing issues in C#.NET, Angular, and Node.js, resulting in significantly reduced loading times.
- Engineered internal tools using Node.js, with a specific focus on customer service applications, enabling real-time metric tracking. This allowed for easy detection of flaws in customer service agent interactions, leading to targeted improvements and ultimately enhancing customer satisfaction.
- Leveraged expertise in Angular, Node.js, MySQL, MongoDB, and SQL Server to develop and optimize web applications, guaranteeing high performance and user satisfaction, especially in large-scale projects.

Mary Mikly

Full Stack Freelancer

June 2022 - December 2022

- Developed the Mary Mikly website using the MERN (MongoDB, Express, React, Node.js) tech stack, resulting in an intuitive and feature-rich platform aligned with the client's vision.
- Actively engaged with the client to understand their goals and ideas, seamlessly integrating their vision into the web page for a personalized and tailor-made experience.
- Managed a substantial database housing over 1000 users, effectively handling daily traffic to guarantee optimal performance and data accessibility.

Embedded Software Projects

Pet Dispenser IoT System (Arduino, C, ESP32):

Developed an IoT-based pet dispenser using Arduino and C, integrated with an ESP32 WiFi module to make HTTPS requests to a custom web application. The web app managed dispenser hours, providing automated pet feeding solutions.

Telephone Frequency Imitator (PSoC):

Engineered a telephone frequency imitator using PSoC, simulating phone calls. This project showcased proficiency in hardware programming and signal processing.

Embedded Systems Development (C++, C, Python - Arduino, PSoC, PICkit):

Undertook multiple projects involving embedded systems utilizing C++, C, and Python for Arduino, PSoC, and PICkit platforms. Projects encompassed diverse functionalities, including IoT applications, telephony, and hardware programming.

FPGA Programming with Verilog (Vivado):

Developed a coffee dispenser by programming an FPGA with Verilog using Vivado, demonstrating competence in hardware description languages and FPGA development.

Web Software Projects

See all projects on my portfolio: <https://portfolio-3d647.web.app>

Hangman

A Hangman web game was built. I used React, CSS, HTML5, JavaScript

Project Link: <https://hangman-446d2.web.app/>

Github: <https://github.com/SantiagoLM01/Hangman>

FullStack Pet Adoption Website

In this project I built a MERN Pet Adoption website. I used NodeJS for the back-end and React with Context, CSS, Bootstrap, HTML5 and JavaScript for the Front-End.

Project Link: <https://uam-adopcion.web.app/>

Github: <https://github.com/SantiagoLM01/UAM-Adopcion>

Freelancer for Mary Mikly company's website

A website was created for the company Mary Mikly. React, CSS, TailWindCSS, HTML5, JavaScript were used.

Project Link: <https://mary-mikly.web.app/inicio>

Github: <https://github.com/SantiagoLM01/MaryMikly>

Calendar App

This project is a MERN Calendar with event CRUD. NodeJS was used for the back-end and React with Redux, CSS, Bootstrap, HTML5 and JavaScript for the Front-End. Additional Technologies: Babel and Jest for testing.

Project Link: <https://mern-calendar-sanlm.herokuapp.com/#/auth/login>

Github: <https://github.com/SantiagoLM01/calendarMERN>

FullStack Veterinary Website

A MERN page was created for Veterinarians with CRUD of appointments. NodeJS was used for the back-end and React with Context, CSS, TailWindCSS, HTML5 and JavaScript for the Front-End. Additional Technologies: Cypress for testing.

Project Link: <https://sparkly-shortbread-f0d245.netlify.app/>

Github: <https://github.com/SantiagoLM01/APV-Full>