Samuel Bautista

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Education

Escuela Superior de Cómputo - Instituto Politécnico Nacional (ESCOM-IPN) *Mexico City, MX*
Bachelor of Science in Computer Systems Engineering *Jan 2020 - Dec 2024*
- GPA: 80/100
- A member of Algorithm Club

Work Experience

Camino Connections *Mexico City, MX*
Software Engineer *Nov 2022 - Mar 2023*
- **Refactor:** Implemented a new architecture in the mobile app due to the old architecture had to handle login, sign up, and on-boarding process and furthermore manage all the routes in one controller; The new architecture divided every process in its own business logic component using flutter bloc library to give a better user experience, in addition, providing more scalability and test facility.
- **Better user experience:** Changed the on-boarding process to the new users using the database from the assets to set up a default path to users can use the app immediately removing the choose path screen, in addition, reducing the user introduction a 20-40%.
- **Development:** Extended the data workflow management with a database snapshot script based on the app environment.

Nuba MX *Mexico City, MX*
Web Developer Internship *Nov 2020 - Apr 2021*
- **Logistic:** Improved the equipment order of the organization to know its status by adding images and documents.
- **Fast Information:** Implemented a search bar to look up the matched equipment and employee or enable equipment.
- **Workflow:** Enhanced the administration's workflow by using the employee's permissions to show the navigation bar.

Projects

Pills App *Dart, Flutter, Firebase*
Mobile App *Jan 2022 - Present*
- Shows a list of medicines in your house.
- Allows adding new medicines with their name, dose, content, expiry date, and active compounds.
- Notifies about expired medicines.
- Helps with the searching using each active compound of every medicine.

Temperature Measurement From pt100 Sensor App *Dart, Flutter, Arduino, Serial Bluetooth*
Mobile App *Jan 2023*
- Shows the measure from pt100 measure in binary and Celsius degree.
- Scans near devices looking for HC-05 Bluetooth, connect using a password 1234, and change to measurement screen.
- Gets the information from Bluetooth stream of uft8, then the input is transformed to string to show on the device screen.

Fast Fourier Transform Chart App *Dart, Flutter*
Mobile App *Dec 2021*
- Uses functions like Cos and Sin with some input parameters by the user.
- Loads a text file with the exponential discreet sample.
- Shows a graphic of the signal processing in complex form using the FFT algorithm.

Automaton Words Searcher *Kotlin, DFA*
Console App *Dec 2021*
- Goes through the string and checks if is valid or not.
- Detects given words in text files or console input by the user.
- Saves the places where found valid strings if the user chose a text file as input.

Skills

Programming Dart(2 years), Kotlin(2 years), C++(1 year), JavaScript(1 year), C(1 year), Java(1 year).
Technologies Flutter, Android, Firebase, Arduino, Figma, MySQL, Github, Git, Shell(Zsh).

Achievements

2021	**Ranked top 50 out of +200 teams,** Participant in The Gran Prize of Mexico(ICPC)	*Mexico*
2018	**Speaker of a 30 speakers group ,** Science Week at Preparatoria Anexa a la Normal de Ecatepec	*Mexico*