Mario **A. Velasquez Banaay**

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Education

Rafael Landivar University *Guatemala, Guatemala*
BACHELOR'S DEGREE IN INFORMATION AND SYSTEMS ENGINEERING *Jan 2018 – Nov 2023*
GPA: 3.41

Professional Experience

Telus International *Guatemala, Guatemala*
AWS/TYPESCRIPT DEVELOPER ENGINEER *Aug 2023 – Present*
- API and services development for IoT devices interactions and functionalities using Typescript, Node.js and AWS.
- Constant and effective communication with cross-functional teams to facilitate the solution designs.
- Design flows, models and functionalities of new requirements involving IoT devices, third party provider integrations and communication between microservices involving AWS.
- Development of new requirements with an easy to maintain code with good practices using Typescript and Node.js.
- Researched and debugged on-call cases communicating and solving tickets using OpsGenie, Jira, Confluence, TypeScript, AWS and Node.js.
- Design solutions in high and low level including database storage with DynamoDB.
- Development of base code for a new micro service allowing to deploy resource stacks via Infrastructure as Code (IaC) from AWS using Cloudformation and AWS CDK.
- Generate scripts to automatize processes such as build services and deploy them.
- Create a code base template to replicate with ease the functionalities of IoT device communication via events and commands.
- Lead a squad for the design and development of a service able to connect internet devices (boosters and modems) by planning, creating tasks, developing code, mentoring team members and follow up progress.
- Develop the IaC and core code for an event-driven architecture using Kinesis streams, Kafka, AWS SQS and AWS Lambda
- Create a reusable common library to be used by different services.
- Implement authentication and security best practices with OAuth and JWT.
- Check CI/CD pipelines and fix code problems related with build, unit tests and IaC scan.
- Optimize service performance ensuring best practices in caching with Node Cache, error handling middlewares, and API efficiency.
- Write unit and integration tests using Jest and Vitest with a coverage of 90% or more.

BOWPI *Guatemala, Guatemala*
FRONT DEVELOPER *Oct 2021 – Aug 2023*
- Developed and maintained several web applications with high volume of transactions for management systems for credit card, financing and loan approvals.
- Developed and worked together with an UX/UI team to create reusable and easy to maintain web components to facilitate the development for all the frontend teams using Angular, React and Figma.
- Rebuilt most of the codebase of a bank system to standarize the structure of modules, components and services which led to the improvement of efficiency and code quality of the entire web application.
- Contributed in a cross-platform application development with high quality code, new reusable and mobile-first components using Typescript, Ionic and Angular with the Angular Material and built part of the in-house library.
- Implement authentication and security best practices with JWT.
- Implemented a batch based UI with Angular to load a file with thousands of registries to be storaged and processed in the financing system.

Independent developer *Guatemala, Guatemala*
FREELANCE DEVELOPER *Dic 2021 – Mar 2025*
- Maintained and developed new features for a customized CRM using React, MUI, Node.js, GCP Firebase Functions (serverless) with event-driven architecture.
- Led, developed and maintained WordPress websites for different countries with customized plugins using PHP, Google Maps and Elementor and accomplished the delivery of new funcionalities and updates.
- Developed and accomplished to integrate a third party service to automate a batch load of products that achieved the create, update and delete of product stock, images and information from a WordPress e-commerce using PHP.
- Created a Content Management System mobile apps from scratch with Angular, Ionic and Firebase services to save and share multimedia and information for users. Implemented roles in the system with Firebase Firestore, Node.js and Angular.
- Built a Augmented Reality mobile app using Unity, C# and Vuforia to show a 3D model based on a pattern from presentation cards.
- Created an entire informative website for a NGO including hosting and domain configuration.
- Design and implement high-performance RESTful and GraphQL APIs with schema design for frontend using Angular and React.
- Creation of a live chat with Web Sockets using Angular and Node.js

BlueDevs   *Guatemala, Guatemala*

SOFTWARE DEVELOPER   *Nov 2020 – Oct 2021*
- Planned, designed, developed and delivered the frontend and backend of a medical history system and invoice factoring system from scratch using Angular, Node.js, MySQL, Express and MongoDB.
- Integrated backend services to facilitate the consumption of data between two systems.
- Implemented efficient web API services using .NET and C#.
- Led and support projects by organizing tasks between team members.
- Provided knowledge transfers to new team members to accelerate the learning curve of the project.

Skills

Programming Languages:	TypeScript, JavaScript, C#, PHP
Frontend:	Angular, Ionic, SASS, BootStrap, Angular Material, React, MUI
Backend:	.NET Core, Node.js, Sequelize, Vanilla PHP, Inversify, Apollo - GraphQL
Databases:	MySQL, SQL Server, MongoDB, Firebase Firestore, DynamoDB
Methodologies and frameworks:	Scrum, Kanban
Soft Skills:	Assertive communication, Teamwork, Resilience, Problem Solving
Tools:	Figma, Postman, AWS CLI, Adobe Illustrator
Versioning:	Git, GitHub, AWS CodeCommit
Concepts:	OOP, Asyncrony, SOLID principles, Mobile first
Languages:	Spanish - Native, English - Advanced (C1)
Cloud:	Amazon Web Services (AWS), Google Cloud Provider (GCP)

Projects

SPUNS

AN INFORMATIVE WEBSITE INCLUDING A CONTACT FORM, INTERACTIVE CONTENT, BLOGS AND AN INTUITIVE DESIGN TO EXPLAIN THE USERS HOW TO BE PART OF A NON GOVERNMENTAL ORGANIZATION CALLED SPUNS.

WordPress, Elementor, Hosting, Domain, HTML

https://spunsguatemala.org/

SmartHome+

AN IOT DEVICE SYSTEM THAT MANAGES DEVICES FROM DIFFERENT PROVIDERS IN A CENTRALIZED SYSTEM. WITH AN EVENT-DRIVEN ARCHITECTURE AND CLOUD TECNOLOGIES.

Node.js, TypeScript, AWS, IaC, Kinesis streams, Inversify

https://mario-velasquez.web.app/

Bimbo Centroamérica Website

AN INFORMATIVE WEBSITE WITH INFORMATION OF PRODUCTS, HISTORY, RECEIPTS, SOCIAL MEDIA AND MORE ABOUT BIMBO CENTROAMÉRICA.

Javascript, HTML, CSS, Drupal

https://bimbocentroamerica.com/

Kitapenas

E-COMMERCE WITH 20,000+ PRODUCTS WITH AN AUTOMATIC SYNCING PROCESS TO UPDATE INVENTORY, PRICES, PRODUCTS AND MORE. WITH ONLINE PAYMENTS.

WordPress, Javascript

https://kitapenasbb.com/

ELI

MEDICAL SYSTEM THAT REGISTER LOGS FROM PATIENTS, DOCTORS, HOSPITALS, PAYMENTS, SUBSIDIARIES AND MORE TO HAVE CENTRALIZED RECORDS FOR ALL THEIR CLIENTS.

Angular, SCSS, TypeScript, Node.js, Express.js

My Portfolio

A WEBSITE WITH SOCIAL MEDIA REFERENCES, CONTACT FORM AND DOWNLOADABLE CV WITH INFORMATION OF PROJECTS WORKED BY ME.

Javascript, CSS, HTML, Firebase hosting

Certifications

April 2024	**AWS Cloud Practitioner**, Recognized with the level of Cloud Practitioner after passing succesfully the CLF-02 exam.	*Amazon Web Services*