

# ANDRES BUELVAS

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## SUMMARY

Computer engineer with a strong background in web development, driven by a passion for creating robust, scalable, and reliable systems and software. Proficient in leading, designing, implementing and executing components and functionalities with specialization in Fintech and strong interest in Cybersecurity and Artificial Intelligence. Dedicated to delivering top-quality software that makes an immediate impact on customers through adherence to high standards of quality. I am a quick learner, dedicated, and thrive in team environments. Continuously seeking opportunities to leverage emerging technologies to enhance my technical expertise and leadership.

## EDUCATION

### Simon Bolivar University

*Bachelor in Technology (BTech) in Computer Engineering*

2013 - 2019

Caracas, Venezuela

## EXPERIENCE

### SmartHop

Abr 2019 – Presente

*Software Engineer IC5/Engineer Manager | Node.js, React, MongoDB, Redis, Bitbucket Pipelines Feb 2021 – Present*

- I led a team of up to 5 developers as the **technical leader**, responsible for designing, implementing, and maintaining a **Fintech** product that included modules for *invoices, payrolls, wallets, fuel, and billing*.
- Overseeing, designing, and implementing the invoicing module for accurately recording service delivery revenues.
- Creation of *SmartPay*, a secure **funding** mechanism that utilizes **ACH accounts** for user payments.
- Supervision, design, and execution of integration with *UNIT's API* for the creation of **bank accounts**, generation of **debit cards**, and facilitating transfers between internal and **ACH accounts**.
- Implementation of **2-Factor** mechanism as a security requirement for integration with *UNIT*.
- Implementation of *Onramp* integration for generating **fuel cards** and visualizing transactions.
- Use **GraphQL** to visually map gas stations within a specified distance radius and easily locate the nearest ones using **Google Maps** and **Trimble Maps API**.
- Management, deployment, and maintenance of the *Payroll module (V2)*, featuring on-demand generation of income and expense records, along with *PDF* report display capabilities.
- Creation of a **ledger** system that accurately records all income and expenses in accordance with **accounting** principles.

*Senior Full Stack Engineer | JavaScript, Node.js, React, MongoDB, Redis*

Aug 2020 – Feb 2021

- I have been appointed as the exclusive developer responsible for overseeing all products pertaining to *e-commerce, fuel, and insurance* within the company.
- Integration with the *EFIS/WEX API* using **SOAP** for fuel card generation and visualization of transaction activities. The integration architecture followed the **OOP model**.
- Integration with **PLAID**, a powerful library that enables secure client authentication (*OAuth*) within banking institutions, ensuring the safe handling of sensitive banking information.
- Responsible for designing, implementing, and maintaining the *Payroll module (V1)* infrastructure.

*Full Stack Engineer | JavaScript, Python, Node.js, React, MongoDB, Redis*

Abr 2019 – Aug 2020

- Developing a dynamic dashboard using **Chart.js** and **React** to visually represent user profit through interactive charts.
- Integration of the **Stripe API** for payment plan subscriptions and secure management of customer payment methods.
- Create a password recovery feature that enables users to reset their password securely.
- Utilizing **geolocation queries** and **set theory** to efficiently retrieve resources in **Redis**.
- Developed email implementation and sending functionality using **Mandrill** and **Mailchimp**.

### CIDITEL-VE/Latinux Inc

Jul 2018 – Abr 2019

*Backend Engineer | Python, Web2py, Bootstrap*

Miranda, Venezuela

- Developed **MECE** system, introducing an alternative method responsible for enabling exam takers to gain admission to the Simon Bolivar University as students.
- Developed an online academic exam system that includes a time limit for each category (*numerical and verbal ability*).
- Developed the teacher's capability to initiate the online academic exam for all students once they are ready, and to promptly receive feedback on the results upon completion of the exams.

### Simon Bolivar University

Abr 2018 – July 2018

*Support Assistant | Python, Web2py, Bootstrap*

Miranda, Venezuela

- Developed **SisPIO** system that empowered numerous students to enhance their skills for the university exams.
- Project utilized for administrative purposes, including control, student tracking and *PIO* program activities.

# PROJECTS

**ClueGarden** | *JavaScript, Node.js, Firebase, Heroku, Stripe*

- Developing, analyzing, and implementing the infrastructure for an *e-commerce* system platform that utilizes **Stripe** as a payment gateway to enable users to subscribe to various plans and services.
- Develop **APIs** and seamlessly integrate them with the application's user interface. Implemented **Firebase** communication as a **Backend as a Service (BaaS)** to leverage **Cloud Firestore** as the cloud database solution.

**Portafolio 2024** | *JavaScript, Next.js, Tailwind, Schadcn/UI, GitHub Actions* [Source Code](#)

- I have developed a **Next.js** project to demonstrate my diverse range of academic, professional, and technical skills.
- The view was developed using **Tailwind** and **Schadcn/UI** to incorporate a dark-light mode, accordion cards for displaying projects, and enhancing the overall website layout.

**GPI System** | *React, Django, MongoDB, Swagger, Material UI*

- University project that implemented academic exam management by monitoring students' knowledge and results.
- Implemented personalized exam complexity adjustments based on individual student levels to strengthen areas of weakness and reinforce previously acquired knowledge.
- Developed a **real-time application** for conducting academic exams, which showcases data through interactive charts.

# TECHNICAL SKILLS

- Languages:** JavaScript, TypeScript, Python, MATLAB
- Backend:** Node.js, Express.js, Next.js, Web2py
- Frontend:** React, Tailwind, HTML5, CSS, Material UI, Bootstrap, Schadcn/UI
- Mobile:** React Native, Android Studio, Xcode
- Clouds & Databases:** MongoDB, Redis, Firebase, GitHub Actions, Bitbucket Pipelines, Google Cloud
- Developer Tools:** Git, Postman, Insomnia, Jira, Bitbucket, VSCode, GitHub, Swagger, LaTeX, GraphQL
- Concepts:** Relational and Non-Relational Database, Object Oriented Programming (OOP), Cache Memory, Big O Notation, Agile Methodoloty, Cloud Computing, Real-Time Applications, Asynchronism, Synchronism, Threads, Multi Threads, ServerLess, Infrastructure as Service (IaaS) Platform as a Service (PaaS), Software as Service (SaaS), Continuous Integration & Continuous Delivery (CI/CD), Monolithic & Microservices Architecture

# CERTIFICATIONS

<b>EnglishScore Core Skills</b>   Score: CEFR B1	<i>Jun 2024</i>
<b>Programming in Python</b>	<i>Abr 2024</i>
<b>Clean Code</b>	<i>Mar 2024</i>
<b>Version Control</b>	<i>Mar 2024</i>
<b>Introduction to Front-End Development</b>	<i>Feb 2024</i>
<b>Introduction to Generative AI</b>	<i>Feb 2024</i>
<b>Programming with JavaScript</b>	<i>Feb 2024</i>