

# Alexander Duran Varela

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## **Work Professional Experience:**

Software developer, Smart Costa LLC S.A (Dec , 2024 – current job):

- Software Development: Design and development of web applications using C#, .NET MVC, and related technologies, ensuring clean, efficient, and maintainable code.
- Problem Resolution: Customer service to understand requirements, resolve incidents, and ensure satisfaction with our technological solutions.
- Project Management: Preparation of reports, schedules, manuals, and support materials to facilitate the execution and monitoring of projects in Jira under agile methodologies such as Scrum.
- Testing and Support: Participation in field tests and technical support for the technologies marketed by the company.
- Collaboration and Continuous Learning: Teamwork, generation of innovative ideas, and adoption of new technologies to improve processes and solutions.

Software developer, Glasswin S.A (May , 2024 – Dec, 2024):

- Software development, application maintenance-optimization, server management, tech support:
- **Software Development:** Development of software using .Net, software for desktops and web applications using MVC and layered programming. Working with SQL Server, Windows Forms, Web forms with MVC, ADO .Net, Entity Framework, LINQ, among others.
- **Application maintenance-optimization:** Application maintenance in .Net, improving and optimizing existing applications.
- **Server management:** Server configuration (ftp), installation of SQL Server...
- **Tech support:** Helping clients with doubts and problems about the system, meeting and talking to them, gathering requirements and developing them.

Professional practice and work, Software developer, Infoware S.A (May 30, 2022 – November 10, 2023):

- Software development, business process design, application maintenance, data analysis, customer service and tech support:
- **Software Development:** Development of microservices and micro applications, together with the bpmn process manager, in javascript, webix and mongo db. Development of applications according to customer requirements.
- **Business process design:** Business process design and modeling using BPMN 2.0 to improve efficiency and productivity. Implementation of solutions to automate tasks and reduce time.
- **Application maintenance:** Application maintenance in Node JS, code fixing and adjustment, and ticket development.
- **Data analysis:** Creation of reports for clients, using python, use of flask, pandas, pymongo, bootstrap...
- **Customer Service:** Provided online chat support, ticket support, and management. Additionally, conducted client meetings to review applications and gather requirements.
- **Technical Support:** Helped with software and hardware issues through online chat support, ticket support, and virtual meetings.

**Qualifications:**

- Willing to learn.
- Analytical skills.
- Able to work under pressure.
- Verbal and written English.
- Proactive.
- Communication skills.
- Fast learner.

**Education:**

- 2014-2018 Baccalaureate of Secondary

### **Education and English Liceo Experimental Bilingüe de Naranjo**

- 2021-2022 Computer application programmer (Software development)

### **Instituto Nacional de Aprendizaje**

- 2024 – In progress Cisco CCNA 1,2,3

### **Instituto Nacional de Aprendizaje**

### **Knowledge:**

- SQL Server.
- HTML.
- CSS.
- JavaScript.
- Materialize and Bootstrap.
- C# .Net (Apps con Windows Forms y Web Forms).
- Git, GitHub.
- Java.
- API REST.
- React.
- Mongo DB.
- Webix.
- Python (Data analysis).
- BPMN.
- Laravel.
- Azure.
- Testing.
- Verbal and Written English.
- Scrum knowledge.
- Excel (intermediate - advanced).
- API development.
- Cisco CCNA1.
- Cisco CCNA2 and 3 (In progress).
- Azure (SQL Server, Blob Storage...).
- Power BI.

- Power Apps.
- Spring Boot.

### **Some Projects:**

- [https://github.com/alexDurVar/SQLServer\\_Alex\\_INA.git](https://github.com/alexDurVar/SQLServer_Alex_INA.git)
- <https://github.com/alexDurVar/PaginaWebTaller.git>
- <https://github.com/alexDurVar/JavaWebApp.git>
- <https://github.com/alexDurVar/JavaEscritorioApp.git>
- <https://github.com/alexDurVar/CSharp.net-Proyecto-INA.git>

**My web site:** <https://alexdurvar.github.io/portafolio.github.io/>

### **Referrals:**

- Jorge Quirós +506 8390 7016/jorge@infowarecr.com (Infoware S.A).
- Adriana Díaz +506 8881 0963/adriana@infowarecr.com (Infoware S.A).

### **Knowledge explanation**

#### **SQL Server:**

- Creating and managing databases.
- Optimizing queries and connecting applications to SQL Server databases.
- Managing users and permissions.
- Building advanced queries with JOINS, nested subqueries, GROUP BY, and HAVING.
- Developing stored procedures, user-defined functions, triggers, and error handling.
- Using cursors, implementing transactions, and locking data.
- Connecting applications using Entity Framework for .NET and JDBC for Java and more...
- Optimizing queries and improving performance using indexes.
- Applying UML for conceptual modeling.
- Using SQL Server on APIs.

#### **HTML:**

- Creating semantic structures using HTML5 tags.
- Creating HTML forms and data validation.
- Integrating multimedia content (images, audio, video).

**CSS:**

- Effective page styling with selectors and CSS classes.
- Responsive design using flexbox and grid layout.
- Creating animations and transitions.

**JavaScript:**

- Creating interactivity for websites.
- Efficient DOM manipulation and event handling.
- Server communication using AJAX.
- Form validation with JavaScript.
- Using libraries and frameworks such as jQuery.
- HTTP requests.

**Materialize and Bootstrap:**

- Implementing Materialize or Bootstrap for attractive design and optimized user experience.
- Creating various components such as navigation, progress bars, cards, and modals...
- Responsive design using grid systems.

**C#:**

- Creating user interfaces with Windows Forms and Web Forms.
- Connecting applications to SQL Server databases using ADO.NET.
- Implementing operations like queries and data manipulation.
- Web development with interactive pages, form validation, authentication, and authorization.
- Using MVC pattern and Entity Framework for interacting with databases.
- API Rest development.
- Building systems from scratch and giving maintenance to existing systems.
- HTTP Requests.
- Desktop and web applications.
- Layered Programming.
- MVC.
- Dapper.
- Linq.

**Git and GitHub:**

- Managing local and remote repositories with Git.
- Performing commits, branches, merges, and conflict resolution.

- Hosting projects on GitHub and collaborating on open-source and private projects.
- Using GitHub Actions to automate testing and deployments.

#### **Java:**

- Creating desktop and web applications using NetBeans and IntelliJ IDEA.
- Connecting desktop and web applications to SQL Server databases using JDBC.
- Designing and developing GUIs using Swing and AWT.
- Developing web applications using servlets.
- Using Bootstrap for designing responsive interfaces.
- Applying layered programming and MVC pattern.
- Spring Boot.
- API Rest development.
- Building systems from scratch and giving maintenance to existing systems.
- JPA.
- Hibernate.

#### **React:**

- Creating interactive user interfaces with React.
- Managing the lifecycle of components and using reusable components.
- Handling data transmission through props and updating components dynamically.
- Managing user events and implementing logic to respond to events.
- Using JSX for rendering UIs effectively.
- React Hooks.
- Optimizing.
- Connecting the user interface using fetch or axios on an API.
- User management.
- JWT (Jason Web Token).
- Rect.memo.
- Context API.

#### **MongoDB:**

- Managing documents in MongoDB collections.
- Performing operations like reading, updating, and deleting documents.
- Using comparison, logical, and aggregation operators.
- Optimizing query performance by creating indexes.
- Pipelines.
- Queries for data analysis.
- Using MongoDB in web applications.

- Managing objects and arrays.
- Lookup, group, match, project, sort, unwind, limit, in, mapReduce...

#### **Webix:**

- Designing and implementing user interface components.
- Connecting and visualizing data efficiently.
- Creating responsive applications with dynamic content adjustment.

#### **Python (Data Analysis):**

- Using libraries like NumPy, Pandas, Matplotlib, and Seaborn.
- Developing web applications for data visualization using Flask.
- Creating interactive applications with dashboards using Dash.
- Performing data processing and cleaning, statistical analysis.
- Creating dashboards according to client's requirements.
- Connecting python with advanced mongodb queries, through pymongo.

#### **BPMN:**

- Modeling business processes and workflows using BPMN 2.0.
- Integrating microservices and micro applications into business processes.
- Designing detailed workflows with BPMN.

#### **Laravel:**

- Developing web applications with PHP Laravel framework.
- HTTP Requests.
- Designing responsive user interfaces using Bootstrap
- Connecting applications to SQL databases and applying MVC pattern.
- Implementing authentication, authorization, and security measures.

#### **Azure:**

- Managing databases and other cloud services (Blob storage, functions...) using Microsoft Azure.
- Designing, implementing, and maintaining cloud solutions.





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*Alexander Duran*



Nombre: ALEXANDER  
1° Apellido: DURAN  
2° Apellido: VARELA  
C.C.

Número de Cédula: 1 1807 0523  
Fecha de Nacimiento: 28 03 2001  
Lugar de Nacimiento: URUCA CENTRAL SAN JOSE  
Nombre del Padre: RAMON DURAN ALVARADO  
Nombre de la Madre: ROSA FRANCISCA VARELA HIDALGO  
Domicilio Electoral: SAN MIGUEL NARANJO ALAJUELA  
Vencimiento: 04 02 2030



002126141



# República de Costa Rica

## Instituto Nacional de Aprendizaje

*Por haber cumplido los requisitos curriculares de aprovechamiento*

*Se confiere el presente diploma a:*

**ALEXANDER DURAN VARELA**

Número de Identificación: 118070523

*En el Programa de Formación*

**PROGRAMADOR(A) DE APLICACIONES INFORMATICAS**

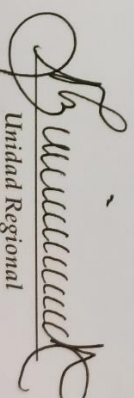
Con un nivel de cualificación de: Técnico Especializado

Con una duración de: 1367 horas

Dado en Alajuela, Naranjo, a los 22 días del mes de agosto del 2022

Registro No. 2302-00870-2022

Presidencia Ejecutiva

  
Unidad Regional

República de Costa Rica  
Ministerio de Educación Pública

**LICEO EXPERIMENTAL  
BILINGÜE DE NARANJO**

Por cuanto:

**Alexander Durán Varela**

Cédula N° 118070523

*Ha cumplido satisfactoriamente con todos los requisitos prescritos por la ley  
y los reglamentos vigentes, se le otorga el título de:*

**Bachiller en Educación Media**

Dado en la ciudad de Naranjo, a los catorce días del mes de diciembre del año dos mil dieciocho.

Registrado en el Libro de Títulos: Tomo: 2 Folio: 17 Número de Título: 1511





Certificado de finalización del curso

Cisco Networking Academy

## CCNAV7: Introducción a Redes

El estudiante ha obtenido la credencial de nivel estudiante por completar CCNA: Introducción a Redes, curso dictado por el instructor que firma. El estudiante fue capaz de:

- Configurar los switch y dispositivos finales para proporcionar acceso a recursos de redes locales y remotos.
- Explicar cómo los protocolos físicos y de capa de enlace de datos admiten el funcionamiento de Ethernet en una red conmutada
- Configurar los routers para habilitar la conectividad de extremo a extremo entre dispositivos remotos.
- Crear esquemas de direccionamiento IPv4 e IPv6 y verificar la conectividad de red entre dispositivos.
- Explicar cómo las capas superiores del modelo OSI admiten aplicaciones de red.
- Configurar una red pequeña con prácticas recomendadas de seguridad.
- Solucionar problemas de conectividad en una red pequeña.

**Alexander Durán Varela**

Estudiante

**INA - CFP de Liberia. Regional Chorotega**

Nombre de la academia

**Costa Rica**

Ubicación

**23/05/2024**

Fecha

Laura Quintana  
VP & General Manager, Cisco Networking Academy