Alberto Brealey–Guzman

Computer programmer

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Recent work

Jun 2020–Jul 2021

UI Specialist Developer, UBS

Front-end developer for a Quantitative analytics platform.

+ Platform and SDK work, targeting new teams of full-stack developers.
+ Development of web apps running on the UBS Neo platform.
+ Full-stack python development and DevOps.

Sep 2017–Oct 2019

Senior Software Developer, RBS Enterprise Engineering

Front-end developer for the OpenBanking and Bank of APIs projects.

+ Collaborated in the architecture and design of a state and route management library built on RxJS.
+ Involved in the architecture, coding and successful production release of several applications to integrate multiple brands with the OpenBanking standard.
+ Part of the team behind the Bank of APIs developer portal. Helped design a custom content management system backed by Bitbucket.

Oct 2015–Apr 2017

Senior Software Developer, ICAP

Member of the Platform front-end group, migrating an existing trading platform written in Adobe Flex and C# to JavaScript and Java applications.

+ Wrote and maintained a JavaScript module for streaming data, extending a third-party product.
+ Developed tooling for automated end-to-end tests for our applications, training and supporting the QA team in its use.

Jan 2011–Sep 2015

Principal, Lab49 UK

Front-end programming targeting modern browsers and the Adobe Flex platform, building Single Dealer Platforms (SDP) for Investment Banks.

+ Member of the Core developer team in the UBS Neo platform, involved in API design, architecture, and support and training for multiple developer teams.
+ Profiling and optimisation of an SDK used by dozens of developers; supported others in memory footprint and performance optimisation of their UI components.
+ Helped diagnose and fix networking and connectivity issues for web applications in enterprise environments: proxy and firewall traversal and configuration.
+ Presented on best practices and developer workflow for other members of the project.

Nov 2009–Dec 2010

Rich Internet Applications Developer, Razorfish

Lead Adobe Flex developer on various rich sites for Audi UK and the Financial Times, backed by custom and commercial content management systems.

+ Worked closely with a client to find and fix issues with a third-party streaming video solution.

+ Developed a solution for visitor tracking and analytics across multiple sites using Adobe Flash and local storage.

Oct 2007–Oct 2009 | **Senior Software Developer, Schematic**

Adobe Flex and ActionScript developer building live data visualisation applications, interactive kiosk installations and desktop applications for clients like The PGA Tour, Target and Riot Games.

+ Presented a deep-dive talk on the Flex lifecycle during the company-wide technical summit.
+ Implemented an Actionscript [library to submit tracking data to Google Analytics](#).
+ Part of a small team working on a prototype for in-car navigation, entertainment and communication software for a major automotive company.

2001–Apr 2007 | **Network and systems administrator, RNO Consultores**

Specialised in email, DNS and web server administration consulting, and security audits and penetration testing.

+ Systems programming and network server patching and enhancements: [my patch for the qmail server](#) is still used in installations of various sizes.
+ Redundant server and WAN links setups.
+ Network architecture design and server provisioning for an online games company.
+ Prepared detailed documentation on every installation and issues solved; provided training on server administration and configuration for clients.

1998–2001 | **Network and Systems Administrator, Inalambrica.net**

+ Design and implementation of a broadband network built over a hierarchy of proxy servers, long-range WAN WiFi and one-way satellite downstream links.
+ Filtering proxies with image compression and general content filtering for speeding up web browsing on low bandwidth CDPD mobile links.
+ Part of a team designing a network appliance aimed at small and medium company installations, featured in [Linux Journal](#) and [Embedded Linux Journal](#).

Skills

+ 15 years of experience in front-end development.
+ Documentation of technical work.
+ Knowledge of computer networks and protocols.
+ Experience defining requirements, explaining tradeoffs and negotiating with product owners.
+ Currently gaining experience in functional programming, both with Clojure and Rust.

Education | **1997–2000** | **Universidad Latina de Costa Rica, Bsc. in Software Engineering**

+ Lead an effort to convert the University's computing lab from proprietary Sun Solaris software to Linux and open-source tools.

Aug 2017 | [Build a Modern Computer from First Principles: From Nand to Tetris](#)

References | **Available on request**