Felipe Fukakusa

felipefuka.com EU citizen - 21/11/1987 Basque Country, Spain Tel: +34 673556918

Email: felipefuka@gmail.com

WORK EXPERIENCE

CAF Power & Automation | Basque Country, Spain

Senior Software Engineer

January 2019 – Present

Senior software engineer developing tools that facilitate the Train Control and Monitoring System (TCMS) design of trains using Qt C++, CouchDB & AWS

- Developed an asynchronous firmware updater for TCMS devices via cloud services and multiple threads
- Implemented ETL processes for train data in AWS Glue using PySpark, Lambda, S3, DynamoDB and Athena
- Obtained AWS Solutions Architect, Developer and SysOps Associate certifications
- Created and maintained CI/CD build processes in Jenkins integrated with automated GUI testing using Squish

DHL Iberia | Basque Country, Spain

Fullstack Developer

March 2018 – December 2018

C# ASP.NET MVC developer creating event-driven micro services using asynchronous programming and SOLID principles for two delivery management apps which are used by over 5000 couriers in Spain and Portugal every day

- Created an admin panel that is responsible for creating and managing accounts using OAuth-based sign-in, registering new delivery devices and real time monitoring of said courier/device pairs
- Implemented a data visualization page using Razor where up to date information on deliveries and online couriers can be seen in real time
- Developed a login credential system using QR codes and NFC cards for quick and easy app access
- Managed CI/CD build processes in Jenkins along with a Test-driven development (TDD) using Visual Studio

Almis | Basque Country, Spain

Lead Software Developer

September 2015 - February 2018

Lead developer implementing asset management and reporting software in C/C++ (boost and STL), Java, Visual Basic & SQL

- Implemented a Swift payment module which is used to transfer cash from one client to another regardless of bank or financial entity (MT103, MT202, MT504 message types)
- Developed algorithms that generate (Banco de España) regulatory reports for the treasury department of major banks and financial institutions
- Upgraded and maintained the Bloomberg market data retrieval module in order to capture up to the minute data from more markets in our accounting and regulatory reporting software
- Created and maintained CI/CD build processes in Jenkins integrated with non-regression tests and usability testing (UX testing) with Selenium

Innogen Technologies | London, U.K. (remote)

AWS Developer

August 2014 – September 2015

Acquired AWS domain expertise and developed solutions using AWS, Java and SQL

- Created and set up Oracle Retail Applications (ORPOS, ORSIM, ORBO, ORCO) cutting down the delivery time from 10 days to just under an hour each using CloudFormation and EC2
- Developed serverless code that update and synchronize data between EC2 machines and on-premises infrastructure using Lambda and SNS
- Managing user authentication, authorization, federated access and Active Directory

Embraer | São Paulo, Brazil

C/C++ Software Developer

July 2013 - July 2014

C/C++ embedded software developer in the flight test division. Completed training in ARINC 429 technical standard

- Developed flight test data conversion software (IRIG Chapter 10 to iNet-X) with a 3.17x performance improvement using shared memory read/write buffers and semaphores from the .NET framework
- Implemented a signal processing application with error correction for telemetry data sent during flight tests

Cornell University | New York, U.S.

Network admin intern

January 2009 - August 2009

Analyzed traffic data using Nagios System monitor and Wireshark. Obtained CompTIA Networking+ certification.

PERSONAL PROJECTS

Stocks! – stock screener and dividend calculator (API Gateway, Lambda, S3, Cognito, Angular) September 2020 – Present **BuyAHouse** – real estate listings aggregator (Lambda, DynamoDB, SES, CloudWatch Events) August 2020 – September 2020

EDUCATION

University of São Paulo | Brazil Grad: Jul 2014 B.Sc. in Computer Science, scientific research fellow

 Data Visualization Scientific research scholarship awarded for implementing FastMap algorithm in C# for large multidimensional datasets and navigating using gestures and Microsoft Kinect

State University of New York | U.S. Grad: Dec 2009 A.A.S. in Computer Forensics, Fulbright Alumni

 Fulbright scholarship awarded by the US department of State. Six month extension received in order to obtain degree.

TECHNICAL SKILLS

Programming Languages		Spoken Languages
C#	TypeScript	English - native
C/C++		Portuguese - fluent
Python		Spanish - fluent
Java		French - intermediate
Visual Basic		

Software

Visual Studio	MapReduce	Git
QT	WebStorm	PyCharm
SQL developer	Docker	Amazon Web Services
Wireshark	Office 365	Google Cloud Platform