Albertus Johannes “Bertin” Jacobs

Specialist: Charging Systems/Service Delivery - eCommerce

Contact

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Soft Skills

Communication, Presenting

Leadership, Teamwork

Adaptability, Problem Solving

Documentation,Reporting,Training

Innovative, Creative

Social, Emotional Intelligence

Strategic Planning, Budgeting and Roadmaps

Agile Methodologies

Technical Skills

Cloud Computing/Virtualisation

Infrastructure, Engineering Design

Design Thinking

Software development

- Python
- NodeJS (JavaScript and TypeScript)
- Swift and SwiftUI
- C, C# and C++
- HTML5 and CSS3
- Firerbase and Google Analytics

UI/UX Design

•Sketch

Repositories

•GIT
•NPM

Data and Data Science

•SQL, Core Data, Realm
•ML and AI introduction
•Power BI

Awards

TADHack Winner 2016

•Competing against 64 developers
•Design Thinking

ZTE and MTN Mini Challenges

Certifications

ITL Foundation

TOGAF 9

Amazon Web Service: Essentials

Professional Profile

My passion lies in technology that changes lives! Successful Planner, Engineer, Architect and Developer with 9 years experience in a large company. Experienced to design, plan, implement and test solutions across platforms to solve customer requirements. Taking ownership of the solution to provide future consultation and roadmaps. Maintain relationships, manage budgets and ensure system integrity via capacity planning.

Experience

MTN South Africa - *Specialist: Charging Systems / Service Delivery*
January, 2017 to Current

Project: eTV

Enable additional revenue stream on a billing management system by implementing credit card payments as a payment option for video-on-demand content as the lead engineer to gather requirements, design, test and implement reusable code.

Project: Electronic Recharge

Procured and implemented a new system that is fast and scalable to allow the virtual sale of products and drive revenue within the company as the lead engineer to define requirements and user journeys for the tender process and implement.

Project: Be-Your-Own-Boss

Enable consumers during COVID to generate their income and Be-Their-Own-Boss by selling products via a virtual banking solution as the lead engineer to gather requirements, design, test and implement across multiple environments.

Project: Virtualisation

Virtualisation of 2 revenue-generating systems without revenue loss due to downtime for enhanced security, operational, capacity and infrastructure management and reduced operational cost as lead engineer to redesign architecture, test and implement.

Project: Revenue Assurance

Prevent audit findings and fraud by adding the EFT switch as 3rd control measure on end-to-end system architecture for financial transacting systems as the lead engineer to motivate the requirement at the Architect Board.

Project: Product Life Cycle

Reduced complexity of the product lifecycle management through automation by implementing a catalogue management function across multiple systems using JSON as a new REST API from scratch.

Project: Direct Carrier Billing

Introduced an additional billing concept on the billing management platform to enable digital providers like Apple and Google payment using mobile airtime billing as the lead engineer to gather requirements, design, test and implement across multiple environments.

Project: Mobile Money

Enabled business continuity for informal merchants to replenish their trade accounts using mobile money as the lead engineer to gather requirements, design, test and implement reusable code.

Project: Interactive Knowledge share

Reduced the turnaround time for engineers across multiple teams to design more effectively and efficiently using Agile methodologies to share artefacts on MS Sharepoint.

MTN South Africa - *Engineer: Systems*
July, 2013 to December, 2016

Project: Self-service Application

Reduced GSM network load for the USSD protocol by reducing session times by design, test and implementation of new user journeys on 10 USSD applications.

Project: Pay4Me

Enable additional revenue stream for voice charging by implementing collect-call as the lead engineer to design, test and implement a new system feature.

Project: USSD Emulator

Reduced turnaround time for testing by 60% by creating a new USSD emulator from scratch using python and HTML.

Project: ABSA

Increased digital revenue sales of GSM products for ABSA by 70% by exposing additional bundles on the BASE24 protocol.

Project: XtraTime Loans

Increased revenue by 10% by enabling a new loan offering on the EFT switch as the lead engineer to design test and implement a new system feature.

Project: 100Day

Delivered 100 business projects within 100 days as part of a team of engineers.

Project: 2014 Soccer World Cup

Provided the majority of MTN customers with limited internet connectivity access to the soccer world cup scores by developing a USSD application.

MTN South Africa - Graduate Engineer
February, 2013 to June 2013

Project: Knowledge Share

Documented all user journeys using MS Visio of 10 existing USSD applications as well as backend system integration.

University of Pretoria
Veterinary Genetics Laboratory and Equine Research Centre - *Junior Software Developer (IT)*
March, 2012 to January, 2013

Project: RHODIS

Developed an application using SQL, PHP, HTML and MS Access to assist the laboratory against rhino poaching.

Project: African Horse Sickness

Developed an application to record and store information regarding African Horse Sickness using SQL, PHP and Filemaker PRO.

Education

Tertiary Qualification	**University of Pretoria** BEng Electronic (Completed December 2011)
Secondary Qualification	**Wolmaransstad High School** (Matriculated in 2003 with a average of 73%)

Personal Projects

Project: Formula 1 Driver Standing Prediction
Technologies Used: Python (SKLearn, PyTorch), Power BI

Design and implement a Machine Learning algorithm to predict the outcome of the 2022 F1. Visualise and enable storytelling via PowerBI.

Project: FlashQuiz
Technologies Used: Swift, SceneKit, Multipeer Connectivity, Sketch

Design, develop, test and publish an iOS multiplayer peer-to-peer game from scratch with 3D graphics, 2D overlays and in-app purchases.

Project: kFit and SmartMirror
Technologies Used: SwiftUI, Realm, Sketch, Microsoft Azure

Design, develop, test and publish an iOS application from scratch using MVVM principles and Sketch.

Project: HomeBridge
Technologies Used: NodeJS, GIT, NPM

Develop and maintain open-source plugins on GIT and NPM using NodeJS to enable non-HomeKit devices to integrate.

Project: Home Automation
Technologies Used: JAVA, HTML, CSS, AWS Lambda

Design, construct and develop hardware and software for additional HomeKit and Alexa integrations using JAVA, HTML and CSS.

Project: Wordpress, Google Analytics, SEO
Technologies Used: JAVA, HTML5, CSS3

Design, develop and test multiple websites using WordPress and various plugins.