



# <JACQUES GERHARD NEL/>

Lead Engineer

## <professional summary/>

Seasoned software engineer boasting a sixteen-year track record in orchestrating, executing, and spearheading software solutions across diverse platforms – web, mobile, and desktop. My methodical and organized approach and keen analytical eye consistently yield dynamic coding and innovative coding methodologies. My commitment to understanding client needs and effective communication forms the cornerstone of fostering enduring and mutually beneficial business relationships. I am actively seeking opportunities on the Isle of Man for relocation with my wife. I aim to secure a permanent position that aligns with my skills and expertise, fostering a long-term commitment to contribute meaningfully to a dynamic team.

## <contact/>

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-  <https://www.linkedin.com/in/jacques-nel-5b643020/>

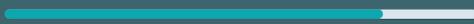
## <skills/>

### TECHNOLOGY

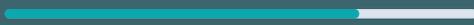
#### JAVA SCRIPT / TYPE SCRIPT (6 Y)



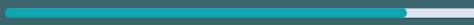
#### ANDROID (KOTLIN / MVVM) (4 Y)



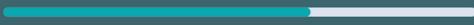
#### C# (MVC, ENTITY FRAMEWORK) (8 Y)



#### REACT / REACT NATIVE (4 Y)



#### HTML / CSS (6 Y)



### OTHER SKILLS

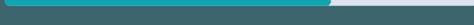
#### TEAM AGILE COLLABORATION



#### BACKEND DEVELOPMENT



#### FRONT-END DEVELOPMENT



#### CONTENT MANAGEMENT SYSTEMS



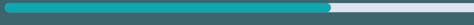
#### OO & FUNCTIONAL PLANNING



#### RELATIONAL DATABASES & NOSQL



#### DEVELOPER OPERATION TOOLS



## <work experience/>

### SENIOR SOFTWARE ENGINEER

Kazang | Cape Town | South Africa |  
KAZANG

FEBRUARY 2023  
- PRESENT

### SENIOR SOFTWARE ENGINEER

Trixta / Playlogix | Software Orchestration  
| Cape Town | South Africa  
TRIXTA

JUNE 2018  
- JANUARY 2023

### SENIOR SOFTWARE ENGINEER

Bluegrass Digital | Digital Agency | Cape Town  
| South Africa  
BLUEGRASS DIGITAL

JUNE 2013  
-MAY 2018

### JUNIOR SOFTWARE DEVELOPER / IT

SPECIALIST  
IDU Software | Financial Services | Cape Town  
| South Africa  
IDU SOFTWARE

JUNE 2007  
- 2013

## <education/>

### INFORMATION TECHNOLOGY DIPLOMA

CAPE PENINSULA UNIVERSITY OF  
TECHNOLOGY  
Cum Laude

2003 - 2007

### CERTIFICATE MCSE

NATIONAL INSTITUTE OF  
INFORMATION TECHNOLOGY

2001 - 2003

### HIGSCE

ST PAULS COLLEGE WINDHOEK

1997 - 2007

<work experience expanded/>

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**SENIOR SOFTWARE ENGINEER**

February 2023

Kazang | Cape Town | South Africa | KAZANG

- Present

- Integral team member in Android application development, enhancing **JAVA** code with the latest **Android** features and **Kotlin** co-routines under **MVVM** Architecture. Collaborated via **Confluence** and **JIRA** for streamlined processes, crafting technical specifications and templates.
- Automated **JIRA** and **Confluence**, led the setup of a comprehensive release procedure, and documented the process.
- Advocating for code quality, applying **SOLID** principles, and transitioning JAVA code to Kotlin.
- Coordination with QA for effective test cases, integrated support for Ingenico Devices, and developed a versatile Hardware Device interface.
- Ensure code quality with linting and best practices.

<achievements>

- Created a SIM switcher Android application for dual SIM terminal devices. It would run as a foreground service that would monitor the network traffic, should a disconnection occur, it would notify the user and switch to the other SIM card
- Improved QA and testing process with Confluence and JIRA.
- Improved the release procedure for the applications
- Converted the entire code base from Java to Kotlin
- Improved Retro active meetings utilizing Retrium

# <JACQUES GERHARD NEL/>

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## <work experience expanded/>

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### SENIOR SOFTWARE ENGINEER

June 2018

Trixta / Playlogix | Software Orchestration | Cape Town |  
South Africa | TRIXTA

- January 2023

- Collaborated within an agile team to spearhead the development of diverse applications catering to startup clientele, leveraging cutting-edge technologies and methodologies.
- Engineered push notification functionality utilizing Amazon SNS (Simple Notification Service) for enhanced user engagement.
- Implemented advanced Android features and harnessed Kotlin coroutines within an MVVM architecture, optimizing performance and scalability.
- Pioneered the design and development of an Integrated Development Environment (IDE) for Trixta using Eclipse-Theia, enhancing workflow efficiency.
- Architected Trixta IDE solutions for clients, orchestrating seamless backend system integration.
- Contributed as a key member in developing a React Native application for Waitroom, facilitating interaction with Trixta.
- Spearheaded team efforts in crafting React and NEST applications for Waitroom, fostering seamless integration with Trixta and Kafka Event processing.
- Engineered robust backend systems using Java Spring framework and Node.js REST APIs, ensuring reliability and scalability.
- Actively engaged in project meetings with business analysts and clients, providing valuable insights and recommendations.
- Innovated by creating an Ethereum smart contract using Solidity and Truffle, showcasing proficiency in blockchain technology.

## <achievements>

- Developed the phoenix-to-redux npm module, bridging Elixir Trixta Server with Phoenix Web sockets, enhancing interoperability.
- Spearheaded the creation of the trixta-js npm module, enabling seamless interfacing with Elixir Trixta Server for React applications.
- Fostered team cohesion and morale by introducing engaging board game activities, and strengthening relationships and trust among team members.

# <JACQUES GERHARD NEL/>

Lead Engineer

## <work experience expanded/>

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### **SENIOR LEAD SOFTWARE ENGINEER**

Bluegrass Digital, Digital Agency, Cape Town, South Africa | [Bluegrass Digital](#)

June 2013

– May 2018

- Drove the design and development of robust ASP.NET MVC applications, elevating client solutions through meticulous planning and execution.
- Spearheaded collaborative efforts with data analysis teams to delineate project requirements, ensuring alignment with organizational objectives and client expectations.
- Crafted comprehensive technical requirements tailored to client specifications, optimizing project workflows and resource utilization.
- Orchestrated the design of SQL and MongoDB databases, implementing scalable and efficient data management solutions.
- Proactively engaged in project meetings with business analysts and client consultations, fostering open communication and strategic alignment.
- Demonstrated leadership prowess by mentoring and guiding a team of 4 software developers, nurturing talent, and driving excellence in project delivery.
- Engineered dynamic Umbraco CMS-based web applications, leveraging cutting-edge technologies to deliver unparalleled user experiences.
- Designed and developed Episerver CMS commerce web applications, integrating e-commerce functionalities seamlessly into client platforms.

## <achievements>

- Innovated by creating a web application CMS boiler template, streamlining project initiation, and reducing startup time by an impressive 70%.
- Fostered a vibrant team culture by introducing beer and board game activities every Friday after work, bolstering team morale, fostering stronger relationships, and nurturing trust among team members.

**<JACQUES  
GERHARD  
NEL/>**

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**<work experience expanded/>**

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**JUNIOR SOFTWARE DEVELOPER / IT SPECIALIST**

June 2007

IDU Software, Financial Services, Cape Town,  
South Africa

– June 2013

**IDU**

- Designed and developed on an ongoing .NET web application.
- Designed project requirements in cooperation with data analysis teams.
- Participated in project meetings with technical staff members, business analysts, and external stakeholders.
- Designed and created SQL and Crystal reports.
- Working with T-SQL databases and queries.
- Trained and mentored a junior IT specialist.
- Managed and tracked ongoing projects.
- Responsible for all IT Infrastructure and Security.

**<achievements>**

- Implemented Data backup strategy with Microsoft Data Protection Manager, that increased reliability and sped up recovery by 80%.
- Created installation and Troubleshooting documentation for all consultants.
- Replaced IT infrastructure with Microsoft Hyper V, that made recovery and spinning up of machines with a push of a button.
- Replaced Source control with Microsoft Team Foundation Server, which made managing tasks and code easy.

# <JACQUES GERHARD NEL/>

Lead Engineer

## <projects/>

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### TRIXTA

- Javascript Trixta Library, to help integrate with Trixta Space
- Integrate phoenix channels with react redux reducer (github.com)

Contributor to Open Source Projects

- A React component for building Web forms from JSON Schema. (github.com)

### BLUEGRASS DIGITAL

- Petrofac Corporate Website | Umbraco Development | Bluegrass (bluegrassdigital.com)
- MiTech Direct EpiserverCommerce | Bluegrass Digital
- Fives Futbol Umbraco Web Platform | Bluegrass Digital
- SilverSaints Handyman Online Booking Platform | Bluegrass Digital