

# Mayckon Giovanni

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## Summary

Greetings! I'm a Quantum Computing and Software Engineering specialist, passionate about pushing computing boundaries using Rust and JavaScript. With a strong Mathematics background, I enjoy exploring new theories and techniques for cutting-edge solutions. I contribute to open-source projects in Python, C++, and Rust, and delve into Linux to enhance my expertise in cybersecurity and cryptography. I've developed cross-platform applications, ERPs, and distributed systems using JavaScript, Python, and Rust. Proficient in web development with React, NestJS, and Angular. A lifelong learner, I stay updated on tech trends, engage with the developer community, and seek collaboration on exciting projects. If you need an enthusiastic and dedicated Software Engineer, let's connect and explore how I can contribute to your goals.

## Experience



### Software Engineer Technical Lead

#### Stigning

Jan 2010 - Present (14 years 1 month)

Developed distributed systems and multi-threaded applications using Rust and C++, achieving optimal resource utilization and seamless execution across multiple threads.

Applied advanced cryptographic algorithms and protocols to create secure, tamper-proof decentralized applications, including blockchain protocols such as zK protocols.

Demonstrated proficiency in web development technologies, including React, React Native, and NestJS, to design and build robust and scalable web applications, ensuring exceptional user experiences across platforms.

Prioritized cybersecurity and cryptography, integrating heavy security measures to safeguard sensitive data and ensure data integrity, confidentiality, and privacy.

Successfully managed projects and collaborated with cross-functional teams, utilizing agile methodologies and tools to deliver projects on time and within allocated resources.

Consistently exceeded client expectations by delivering high-performance, secure, and scalable software solutions tailored to meet specific requirements.

Maintained a deep understanding of emerging technologies and industry trends, continuously enhancing technical knowledge and skills.



### Senior Software Engineer Technical Lead

#### Olympos Labs

Jan 2022 - Sep 2022 (9 months)

Defined and prioritized the product roadmap in collaboration with the CEO and COO.

Managed the engineering team and development partners, integrating partner APIs.

Implemented best practices for software development, including agile methodologies, automated testing, CI/CD, and code reviews.

Established systems for monitoring platform performance, user behavior, and feature usage.

Researched and implemented emerging technologies like blockchain, machine learning, and natural language processing.

Led the development of high-quality, innovative software solutions tailored to client and user needs.



## **Research And Development Engineer**

University of Oslo (UiO)

Jul 2015 - May 2022 (6 years 11 months)

Led groundbreaking projects focused on the design and implementation of experimental setups to study quantum phenomena. Developed advanced mathematical models and employed rigorous data analysis techniques to extract profound insights into quantum systems.

Possess deep technical proficiency in quantum mechanics, enabling the formulation of novel theories and methodologies. Leveraged this expertise to simulate and explore complex quantum systems, contributing to the frontier of quantum computing research.

Successfully led multidisciplinary teams in the implementation of quantum computing projects. Defined project plans, established realistic timelines, and efficiently allocated resources to ensure timely and successful project completion. Mentored junior researchers, fostering a collaborative environment for enhanced productivity and innovation.

Taught courses on Quantum Computing and Mechanics, designing comprehensive syllabi and delivering engaging lectures. Actively collaborated with global research institutions, leveraging diverse perspectives and contributing to cutting-edge Quantum Computing projects worldwide.



## **Full Stack Engineer**

Grupo Educacional INEPE

Jul 2015 - Jul 2016 (1 year 1 month)

Developed and maintained software solutions utilizing the MEAN stack, IONIC framework, and Odoo ERP platform.

Built complex systems for student management, course administration, and ERP integration.

Created a scalable and user-friendly e-learning app for students and professors, leveraging expertise in the IONIC framework.

Enabled mobile access to course materials, assignment submission, and communication features.

Collaborated with cross-functional teams to shape product roadmaps and provide technical guidance.

Mentored junior developers and produced comprehensive technical documentation.

Demonstrated proficiency in delivering software solutions that prioritize performance and user experience.

## **D3S IT and Operations Director**

D3S

Jan 2011 - Jul 2015 (4 years 7 months)

Developed and maintained IT services, tracking devices, and servers to support core business operations.

Led teams, formulated action plans, and monitored service delivery.

Designed and implemented IT solutions tailored to the organization's needs, utilizing skills in systems engineering, distributed systems, full-stack development, cryptography, DevSecOps, software development, network security, data analysis, web development, information security, Linux, servers, C++, and PostgreSQL.

Provided strategic guidance to senior management, ensured IT service security, and identified emerging technologies for product and service enhancement.



## **Java Software Developer**

Hot Zone Safety Group

Jan 2008 - Feb 2009 (1 year 2 months)

Developed complex software systems with a focus on network-related functionalities, implementing efficient and optimized code to maximize application performance while emphasizing network-related features.

Integrated advanced security features into the software solutions, ensuring robust resistance against potential security threats, unauthorized access, and data breaches to maintain a high level of data and network security.

Collaborated closely with cross-functional teams, providing technical expertise in network and security aspects. This collaboration contributed to product development, effective product roadmaps, and ensured the software solutions met the business requirements.

Prioritized application performance and scalability, creating software solutions capable of efficiently handling increasing workloads. This was achieved by optimizing code, implementing network-focused functionalities, and maintaining high levels of security, ensuring the software solutions could accommodate future growth.



## **Information Technology Security Analyst**

Doom Solutions LLC

Jan 2005 - Dec 2007 (3 years)

As an Information Security Analyst at Doom Solutions from January 2005 to December 2010, I designed and implemented security systems that adhered to industry best practices and standards. I utilized advanced techniques such as intrusion detection and prevention, firewalls, and VPNs to ensure the confidentiality, integrity, and availability of data across various networks.

I played a key role in developing and implementing security policies and procedures for various companies. I conducted regular security assessments, identified vulnerabilities, and provided recommendations for improvements to existing security controls. I also designed and delivered security awareness training programs for employees to enhance their overall security awareness.

My experience as an Information Security Analyst provided me with an in-depth understanding of the technical aspects of information security. My skills in network security, intrusion detection, and security policy development allowed me to implement effective security controls that met the specific needs of the organizations I worked with.

## **Education**



### **The Faculty of Mathematics and Natural Sciences**

Master of Science - MS, Quantum Technology

2016 - 2018



### **Caltech**

Quantum Cryptography, Computer Science

2016 - 2018



### **University of California, Berkeley**

Data Science and Engineering with Apache Spark, Data Analysis & Statistics

2016 - 2016



**Federal University of Rio Grande do Sul**

Bachelor of Applied Science - BASc, Physics and Computer Sciences

2011 - 2015

## **Skills**

IT Security Policies • Vulnerability Management • Log Management • Intrusion Detection • Systems Engineering • Distributed Systems • Quantum Computing • Full-Stack Development • Cryptography • DevSecOps