

# Matheus Aranha

Rio de Janeiro | +55-21-997461903 | aranha.mss@gmail.com

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## Experience

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### LNCC-SCP / CENPES

*Cybersecurity Researcher • July 2019 - Present*

Research on homomorphic and post-quantum cryptography standards for developing a post-quantum crypto library. Development of a classic cryptographic library for geological software.

**Key Accomplishments:**

- Development of a C programming language encryption interface for software geological features in other programming languages.
- Implemented parallel encryption standard modes using Go
- Performance analysis of cryptographic algorithms in numerical hydromechanical coupling simulations.

### ProntLife Health Intelligence

*Data Security Specialist • December 2018 - June 2019*

Worked with the development team responsible for the implementation of data privacy techniques to business models in accordance with the the General Data Protection Act (LGPD) and the General Data Protection Regulation of Data (GDPR).

**Key Accomplishments:**

- Analysis of the current data privacy models of the company, adapting them to the law.
- Development of secure database communication interface during the process of data analysis and dashboard creation.

*Data Analyst • December 2017 - December 2018*

Responsible for extracting, manipulating and analyzing public data health used for dashboard creation. Assigned for the development of analytical dashboards.

**Key Accomplishments:**

- Built the ETL procedure used for the data extraction model.
- Implemented iterative dashboards using Tableau and Amazon QuickSight.

### OpenBox

*Software Engineer • January 2016 - September 2017*

Developer of commercial web applications for small and medium companies. Responsible for creating and maintaining the APIs used in applications. Maintenance of the necessary infrastructure to maintain the services.

**Key Accomplishments:**

- Implementations of APIs using Python and Go.
- Created and managed CI/CD pipelines.
- Obtained integral knowledge of companies order management platform was instrumental in the migration to AWS

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## Education

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## State University of Piauí - UESPI

*Bachelor's Degree, Computer Science • August 2013 - August 2017*

Research in Data Security and Privacy.

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## Skills

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### Programming

Development experience in the following programming languages:

- C
- JavaScript
- Python
- GoLang

### Network and Web Application Penetration Testing

Knowledge of the essential penetration testing processes and methodologies (Information Gathering, Reconnaissance, Gaining Access).

### Cryptography

Experience and knowledge in symmetric, asymmetric (classical and post-quantum) cryptographic algorithms and standards recommended by NIST.

### Cloud Security Essentials

Data and information security management in cloud environments. Ensuring integrity, availability and confidentiality of cloud systems and data.

### Linux Troubleshooting

Experience using Linux tools to diagnose network and performance issues.

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## Social Links

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- **Github:** <https://github.com/mattslv>
  - **LinkedIn:** <https://www.linkedin.com/in/mattslv/>
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