# Pedro Henrique Neves da Silva

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## Skills_____

- Java | C++ | C | PHP | Laravel | Python | PyTorch | JavaScript | TypeScript | Express | React
- React Native | R | Node | Git | SQL (MSSQL, MySQL, PostgreSQL) | Digital Ocean | Heroku
- Artificial Intelligence | OOP | Machine Learning | Deep Learning | Computer Vision | Frontend
- UX/UI | Backend | Mobile | Full-Stack | English, Portuguese  – All professional proficiency or above

## Working Experience_____

### Software Engineer, Contract

**WebArtigos.com**                                                    03/2016 – 03/2023
• Led the design, development and maintenance of the WebArtigos website, using the latest technologies of Laravel and MySQL.
• Server side maintenance at Digital Ocean with Ubuntu, Nginx, Apache2 and MySQL.

**Beabá dos Concursos**                                           03/2021 – 03/2023
• Development and maintenance of the sites qsimulados.com and metodoaprovacaoemconcursos.com.br, used to publish questions in public tenders and monitor studies.
• The development was made using Next.js and Laravel with PostgreSQL.

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### Professor

**Federal Institute of Mato Grosso do Sul**        04/2016 – 07/2023
• Programming | Data Structure and Algorithms | Android | Software Engineer | Python | Java | UX/UI
• Distributed Systems | React Native;

**Federal University of Mato Grosso do Sul**        07/2012 – 11/2012
• Teaching: Programming | Data Structure and Algorithms | Java

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### Software Engineer

**Ministry of Culture**                                             07/2023 - Ongoing
• Development of the system to reduce the bureaucracy of the accounts system in React and Node.
• Development of the automation model for controlling and searching accounts and public notices in Python.
• Development of the image similarity detection module in Python to detect fraudulent projects.

**CompNet**                                                             03/2014 – 04/2016
• Designed and developed of the CADG mobile app for Android.
• Designed and developed of the SIGO portal in PHP, Javascript and MSSQL.

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### Software Engineer, Intern

**Federal University of Mato Grosso do Sul**        11/2012 – 12/2013

• Improvement of the Integrated Management System of the Fundação Amazônia Paraense de Amparo à Pesquisa (FAPESPA) using PHP, MySQL and XML.

**Federal University of Mato Grosso do Sul      06/2010 – 07/2010**
• Development of the Student Profile Information System (SIPE-Brasil) using PHP, MySQL and XML.

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**System Administrator, Intern**

**Federal University of Mato Grosso do Sul      01/2011 - 03/2014**
• Led the design and  implementation of the Beowulf-like cluster for the Technological Center for Electronics and Informatics (CTEI-MS).

**Federal University of Mato Grosso do Sul      06/2007 – 12/2010**
• Intern at the Technical Support of the Faculty of Computing (FACOM).
• Debian/GNU Linux | Apache | Learning Management System (moodle) | DNS | DHCP | VPN | Firewall Statefull | SAMBA PDC | Email (postfix)
• Management of laboratories with dual boot machines Debian/GNU Linux and Windows XP.

# Education_____

**03/2021 – 03/2024**  Ph.D. in Computer Science.
Federal University of Mato Grosso do Sul, UFMS, Campo Grande, Brazil
Title: Optical Flow for Sheep Movement Detection
Advisor: Hemerson Pistori

**01/2011 – 03/2014**   Master's degree in Computer Science.
Federal University of Mato Grosso do Sul, UFMS, Campo Grande, Brazil
Title: Parallel Algorithms for Alignment of Genomic Sequences
Advisor: Marco Aurélio Stefanes

**01/2005 – 12/2010**   Graduation in Computer Science.
Federal University of Mato Grosso do Sul, UFMS, Campo Grande, Brazil
Title: Application of Algorithm Design Techniques in Backpack Problems
Advisor: Liana Dessandre Duenha

# Others_____

## Participation in final work boards
Silva, P. H. N., Lima, V., Souza, R. S., Ortegosa, C. Z. Participation in the board of Ivanaldo Figueredo da Costa. **Network Project of the 9th Combat Engineering Battalion**, 2016 (Technology in Internet Systems) Federal Institute of Education, Science and Technology of Mato Grosso do Sul.

Silva, P. H. N., Oliveira, L. M., Negri, L. H. Participation in the board of Nereu Saldanha da Silva. **Development of an application for managing a clothing trade in Aquidauana**, 2018 (Technology in Internet Systems) Federal Institute of Education, Science and Technology of Mato Grosso do Sul.

## Publications
Santana, D. C., dos Santos, R. G., Silva, P. H. N., Pistori, H., Teodoro, L. P. R., Poersch, N. L., Azevedo, G. B., Azevedo, G. T. O. S., Junior, C. A. S., Teodoro, P. E. **Machine Learning Methods for Woody Volume Prediction in Eucalyptus**. Sustainability 2023, 15(14), 10968