WILLIAM NIEMIEC

PROJECT MANAGER, FULL-STACK DEVELOPER, AND PH.D. STUDENT

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William Niemiec has 5 years of experience as a full-stack developer and is a Ph.D student at the Institute of Informatics of the Federal University of Rio Grande do Sul (UFRGS) since 2024. He also works as a senior systems developer at Paytrack in Brazil. He has managed several projects, as well as developed various systems, including back-end, front-end, and mobile applications. In parallel, he has been researching software engineering in healthcare since 2021, attending health conferences, and organizing workshops with healthcare professionals. His studies include interoperability protocols such as HL7 and FHIR. He also has research interests in Software Engineering, Component-Based Software Engineering, Model-Driven Development, and Artificial Intelligence applied in healthcare.

HARD SKILLS

- **Language and frameworks:** Java, Python, PHP, Laravel, C#, JavaScript, Angular, React, React Native, Django, Spring Boot, Node.js, Express.js, AdonisJS, Selenium;

- **OS & platforms:** Linux, Windows, GCP, AWS, Docker, Kubernetes, Azure Service Bus;

- **DBMS:** Postgres, OracleDB, MongoDB, SQL;

- **SCM, build, CI/CD:** Git, GitHub Actions;

- **Observability:** Sentry, Kibana, Grafana

- **Other:** JUnit, Nginx, Apache, SonarQube, Agentic-LLMs (CursorAI and Copilot).

SOFT SKILLS

- Good communication
- Willingness to acquire new knowledge
- Persistence in solving problems
- Flexibility and fast adaptation

EDUCATION

Ph.D. in Computer Science   **2024 - Present**
Federal University of Rio Grande do Sul

Bachelor of Computer Science   **Aug 2018 - Oct 2022**
Federal University of Rio Grande do Sul

LANGUAGES

- **English:** Advanced
- **Spanish:** Intermediate
- **Portuguese:** Fluent

EXPERIENCE

Paytrack, Senior systems developer   Nov 2025 – Present

Paytrack is responsible for building and evolving solutions that connect the entire corporate travel process, from the request to the reimbursement, covering bookings, policies, payments, integrations with suppliers, financial back office, and systems used by Paytrack Agency and partner agencies, ensuring efficiency and a fully integrated experience among clients, suppliers, and operations.

Activities and responsibilities:

- Develop and enhance critical functionalities for the financial and operational management platform, focusing on user experience, compliance, and high operational efficiency.
- Actively participate in hands-on development using Java 17 (Spring Boot, Quarkus) for scalable backend APIs and React/AngularJS for frontend solutions. Develop and maintain a mobile application using Flutter.
- Create and maintain clean, testable, and easily maintainable code..
- Collaborate with the team on all phases, from ideation to delivery and post-delivery support, leveraging agile methodologies and constantly seeking system improvements.
- Perform code reviews and provide constructive feedback to ensure high technical quality and system integrity.

Technologies: Java 17, Spring Boot, Spring Data, Spring Security, Quarkus, React, AngularJS, Flutter, AWS, PostgreSQL, MySQL, RESTful API, Docker, AI, Kibana, Grafana

Cognitiva Brasil, Full-stack developer & Project manager   Nov 2022 – Nov 2025

Cognitiva Brasil is a software development company focused on building intelligent, data-driven digital solutions. Cognitiva specializes in full-stack web and mobile application development, offering services in system architecture, AI integration, and enterprise software engineering for clients across diverse industries.

Activities and responsibilities:

- Lead several development teams
- Actively participate in hands-on development of APIs (Java, Python, PHP) and front-end solutions (Angular, React, React Native)
- Manage infrastructure (CI/CD, Apache, Nginx)
- Lead client meetings to ensure project alignment and success

Technologies: Java 21, Spring Boot, Spring Data, Spring Security, Python, PHP, Angular, React, React Native, CI/CD, Apache, Nginx, Docker, RESTful API

Federal University of Rio Grande do Sul, Teaching Practice   Oct 2024 – Jun 2025

Federal University of Rio Grande do Sul is one of Brazil's leading research universities, known for excellence in computer science and engineering. William contributed here as a research assistant and teaching practitioner, working on software engineering research, no-code health platforms, and academic instruction.

Activities and responsibilities:

- Mentored over 50 undergraduate students in computer science, guiding academic projects and assignments.
- Prepared and delivered lectures on software testing and quality assurance, explaining complex concepts to a diverse audience.
- Assisted in grading assignments and exams, offering constructive feedback to help students improve their understanding.

Technologies: Java, JUnit, C, Moodle

EVE, Full-stack developer   May 2023 – Nov 2023

EVE is a technology startup dedicated to developing innovative event management platforms. EVE provides scalable tools for organizing, hosting, and managing conferences, workshops, and networking events through user-friendly, high-performance digital solutions.

Activities and responsibilities:

- Architected and developed a comprehensive event management platform featuring two distinct front-end applications and a centralized backend.
- Engineered a real-time chat system to facilitate attendee networking and communication.
- Implemented a user matching algorithm to connect participants based on shared professional interests.
- Integrated the Split payment API for secure and reliable ticket transactions.

Technologies: React, AdonisJS, MySQL, Stripe, TypeScript, Websocket, Microservices

AVIWA, Full-stack developer   Mar 2023 – Nov 2023

AVIWA is a creative technology company that builds digital marketplaces and platforms to empower artists and creators. AVIWA's products connect talent with global audiences, offering secure payment systems, portfolio management, and e-commerce functionalities.

Activities and responsibilities:

- Contributed to the development of a marketplace for artists to sell their creations
- Developed several features, including file uploads, email service, among others
- Engineered and integrated a secure payment gateway to handle transactions for art sales.

Technologies: HTML, CSS, JavaScript, Stripe, NodeJS, MongoDB

Federal University of Rio Grande do Sul, Research assistant   Feb 2020 – Oct 2022

Federal University of Rio Grande do Sul is one of Brazil's leading research universities, known for excellence in computer science and engineering. William contributed here as a research assistant and teaching practitioner, working on software engineering research, no-code health platforms, and academic instruction.

Activities and responsibilities:

- Led full-stack development on a no-code health platform using Java Spring Boot for the backend architecture.
- Designed and implemented the relational database schema using PostgreSQL.
- Developed and executed unit tests with JUnit to improve test coverage and ensure application reliability.
- Developed a dynamic and responsive user interface for the no-code platform using React with TypeScript, enabling users to create custom health applications through a drag-and-drop interface, and built a cross-platform mobile application using React Native to provide users with on-the-go access to the health platform's features and data, and a backend with Node JS.

Technologies: Java Spring Boot, Java 8, JUnit, Postgres, HTML5, CSS3, JavaScript, Typescript, React, React Native, MongoDB, Node JS

CERTIFICATIONS

Docker and Kubernetes: The Complete Guide
Udemy | 2025

Google Cloud Computing Foundations ACADEMY
Google | 2022

React JS
B7Web | 2021

React Native
B7Web | 2021

Agile Development with Advanced Java
Coursera | 2021

Spring Boot, Hibernate, Rest, Ionic, JWT, S3, MySql, MongoDB
Udemy | 2021

C# Object-Oriented Programming + Projects
Udemy | 2021

Machine Learning and Data Science with Python from A to Z
Udemy | 2020

Object-oriented with Java
Coursera | 2020

Object-oriented with PHP
B7Web | 2020

Bootstrap
B7Web | 2020

HTML5, CSS3, and JavaScript
B7Web | 2020

HONORS - AWARDS

International Young Scientist Awards 2025
Issued by ScienteFather

Young Researcher Award 2022
Issued by Federal University of Rio Grande do Sul