

Davi Andrade

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RESEARCH INTERESTS

Human-Computer Interaction (HCI), Digital Accessibility, Educational Technology, Assistive Technologies, Software Engineering for Social Impact, and Digital Inclusion for Underrepresented Learners.

EDUCATION

Postgraduate Certificate in Full Stack Development and Cloud Computing
Gran University Center, João Pessoa, PB, Brazil | 2024 – 2026

Bachelor of Science in Computer Science
João Pessoa University Center (UNIPÊ), João Pessoa, PB, Brazil | 2019 – 2023

RESEARCH EXPERIENCE

Undergraduate Researcher
UNIPÊ, João Pessoa, PB, Brazil | 2022 – 2023

Advisor: Ricardo Roberto de Lima, M.S.

Project: Asebili — Software for Portuguese Language Acquisition among Deaf Learners.

- Designed and developed Asebili, a gamified educational web application to support written Portuguese acquisition as a second language for Libras (Brazilian Sign Language) speakers.
- Implemented the initial system architecture using TypeScript, Angular, Java, and Spring Boot, integrating educational content, interactive learning flows, and accessibility-oriented interface components.
- Conducted user-centered research in collaboration with deaf learners and educators, focusing on visual interface requirements, usability constraints, accessibility needs, and learner engagement.

Ongoing Evolution: Currently expanding Asebili into a cross-platform educational ecosystem using Next.js, React Native/Expo, Neon, and cloud-based infrastructure to support deployment and performance analytics.

PUBLICATIONS

Manuscript in Preparation

Andrade, D. C.; Paiva, L. K.; Lima, R. R. “Asebili: A Cross-Platform Ecosystem for Teaching Written Portuguese to Deaf Learners.”

PROFESSIONAL EXPERIENCE

Full Stack Developer | PBSoft — Contracted to the Paraíba State Court of Accounts (TCE-PB)
João Pessoa, PB, Brazil | 2023 – Present

- Developed components of SAGRES Auditor, an internal auditing and data-querying platform used to support state auditors in monitoring public expenditures.
- Contributed to [SAGRES Cidadão](#), a public-facing transparency portal designed to improve citizen access to government financial data.
- Developed custom WordPress architectures for the official [TCE-PB](#) portal, supporting institutional communication and content management.
- Developed the official [Login](#) page for internal access.

Full Stack Developer | Maxima Solutions

João Pessoa, PB, Brazil | 2024 – 2025

- Developed TecVoto, a secure digital voting platform for municipal secretariats and legislative city councils using PHP and Laravel.
- Implemented backend logic, relational database structures, and system workflows designed to support vote integrity, scalability, and availability during legislative sessions.

Undergraduate Intern | TCE-PB

João Pessoa, PB, Brazil | 2021 – 2023

- Developed Mural Licitações, a front-end dashboard using Angular to visualize and track public procurement and bidding processes integrated with the Tramita system.
- Collaborated with senior engineers to design user-centered interfaces for improving transparency, traceability, and public access to procurement information.

VOLUNTEER EXPERIENCE

Front-End Developer & UX | [Transempregos](#)

Brazil | 2026 – Present

- Redesigning and rebuilding the user interface and information architecture for the leading employability platform dedicated to the transgender community in Brazil.
- Overhauling the platform's access flow and job listing displays with a strong focus on User Experience (UX), ensuring an intuitive and accessible navigation.
- Contributing to an ongoing, high-impact project aimed at increasing digital accessibility and facilitating inclusive job market integration.

Full Stack Developer | [Afro Academy](#) (EdTech)

São Paulo, SP, Brazil | 2026 – Present

- Engineered and maintained the internal management dashboard for an educational platform using React, Vite, Supabase, and PostgreSQL.
- Developed secure, non-public administrative features focused on course registration, content management, and overall platform administration.
- Managed database operations, data migration, and system recovery tasks to ensure high reliability and availability for internal stakeholders.

TECHNICAL SKILLS

Programming Languages: TypeScript, JavaScript, PHP, Kotlin, Java, HTML5, CSS3, SASS.

Front-End & Mobile: React, Next.js, Angular, React Native, WordPress Theme Development, Expo, Tailwind CSS, Bootstrap, Ag-Grid.

Back-End & Cloud: Node.js, Laravel, Spring Boot, Supabase, REST APIs.

Databases: PostgreSQL, MySQL, SQL Server, Neon.

Tools: Git, GitHub, GitLab, Bitbucket, Postman, DBeaver, npm.

Design & UX: Figma, Adobe Photoshop.

Research Areas: Human-Computer Interaction, Usability Testing, Accessibility, Educational Technology.

AFFILIATIONS

Student Member, Association for Computing Machinery (ACM) | 2026 – Present

Member, National Association of IT Specialists (ANETI) | 2026 – Present