

Ana Paula Oliveira da Nóbrega Costa

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Professional Profile

Computer Engineering student at the University of Brasília (UnB) with expected graduation in July 2026. Experience in software development with focus on **coding, debugging, and problem-solving**. Knowledge in programming languages such as **Python and JavaScript**, familiarity with relational databases, **code review** processes, and agile methodologies. Participant in technology inclusion projects.

Education

University of Brasília (UnB) – Computer Engineering 2019 - Present

- Expected graduation: July 2026

Polytechnic University of Madrid (UPM) – Academic Exchange Jan 2024 - Jul 2024

Professional Experience

ICP Hub Brazil – Blockchain Researcher 2024 - Present

- **Coding and debugging:** Development of tokens and reward systems using React and implementation of smart contracts in Motoko.
- **Problem-solving:** Identification and correction of bugs in blockchain and front-end integrations.
- **Agile methodologies:** Collaboration in multidisciplinary teams following Scrum practices.

Zapay – Innovation Intern Jun 2023 - Jan 2024

- **Innovation:** Contribution with ideas and development of prototypes for new features.
- **Project Execution:** Development of technological solutions using **JavaScript and Python** for the financial sector.
- **Code Reviews:** Participation in code reviews, implementing development practices.
- **Debugging:** Identification and resolution of problems in user interfaces and API integrations.

Spezi – Web and Mobile Development Intern May 2021 - Sep 2021

- **Development:** Work in full-stack development using **JavaScript and frameworks** for web and mobile applications.
- **Debugging:** Identification and resolution of bugs across different application layers.

Computer Junior Enterprise (CJR) Jul 2020 - Jun 2023

- **Project Manager:** Management of financial application development using Scrum, coordinating teams.
- **Developer:** Creation of applications and websites using **JavaScript, HTML/CSS, and web frameworks**.
- **Code Reviews:** Conducting code reviews focused on quality and performance.
- **Leadership:** Marketing Director, coordinating communication initiatives.

Technical Skills

Design Tools: Figma, Adobe XD, Canva, Illustrator, Photoshop

Programming Languages: Python, JavaScript, Java, C++ , C, Rust, Ruby, HTML, CSS, Haskell, Assembly, Motoko

Tools and Technologies: Git, Docker, SQL, Relational Databases, Ruby on Rails, React

Processes: Agile development, Code review, Debugging, Problem-solving, Scrum, Kanban

Languages

Portuguese: Native

English: Advanced (C2)

German: Intermediate (B1)

Spanish: Intermediate (B1)

Design Projects

- **Akinator 2023:** Designed the interface of an Akinator-style game, focusing on interactive and intuitive user experience.
- **Personal Finance App (2023):** UI/UX designer of a personal finance management system, with clean dashboards and modern color schemes.
- **Task Organizer (2021):** Developed interface and branding for a productivity tool focused on simple, drag-and-drop task organization.
- **Form Builder (2021):** Designed a no-code form creation tool with emphasis on accessibility and responsive design.
- **AI Gym App (2024):** Designed an AI-based fitness assistant app, integrating voice interaction and custom workout planning UX flows.
- **University Class Organizer:** Created UI/UX for a class scheduling and study management app for college students.
- **INCRA App (2022):** While working at Spezi, designed the interface for a mobile application for the Brazilian land reform institute (INCRA), aligned with institutional branding and usability guidelines.

Academic and Personal Projects

Password Manager in Rust

GitHub

- Development of an application for secure password management.
- Implementation of security practices and performance optimization.

RISC-V Simulator in C++

GitHub

- Development of RISC-V architecture simulator for academic purposes.
- Implementation of debugging processes for operational verification.

Firewall Implementation in Python

GitHub

- Development of security system using **Python**, with testing and documentation.
- Performance analysis for solution optimization.

Complementary Projects and Activities

ICP HUB Brasil Hackathon – 2nd Place

March 2025

- Developed "MerkleVote," a blockchain-based voting system solving a crucial problem for DAOs and blockchain communities.
- Created a solution using Merkle trees to ensure anonymous voting, 100% verifiable results, and fully decentralized implementation.
- Implemented using the ICP blockchain and Motoko programming language, maximizing native ecosystem resources.

Meninas.comp Extension Project

2022 - 2023

- Teaching basic programming in **Python and JavaScript** to girls in elementary and high school.

Arduino Classes – UnB University Week

2022

- Teaching programming for Arduino.
- Development of educational materials and practical projects.

Competitive Programming

2020 - 2023

- Participation in competitions such as Google Code Jam and Facebook Hacker Cup, using **C++ and Python**.
- Development of skills in problem-solving and algorithm optimization.