

Ana Clara Machado Goncalves

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EDUCATION

University of Central Florida

Orlando, FL

B.S. Computer Science (Senior) — GPA: 3.867

Jan. 2023 – May 2027

- Relevant Coursework: Database Systems, Algorithms for Machine Learning, Object-Oriented Language, System Software, Computer Science I & II, Discrete Structures I & II, Matrix & Linear Algebra, Calculus I & II

TECHNICAL SKILLS

Languages: C, Java, Python, JavaScript, TypeScript, PHP, HTML, CSS, SQL, MARIE Assembly

Frameworks/Web: React, Node.js, Express, MongoDB, Tailwind CSS, Flask, Flutter (Dart)

Tools: Git/GitHub, GitHub Actions, Linux, DigitalOcean, LaTeX, Microsoft Office Specialist, Adobe Certified Associate

Concepts: REST APIs, NoSQL/SQL databases, full-stack architecture, agile collaboration, computer architecture & pipelining, JWT/OAuth authentication, OOP, SDLC, AI/LLM integration, prompt engineering, workflow automation, process optimization, data-driven research

EXPERIENCE

Dual Drinks LLC

Remote

Systems & Software Efficiency Engineer Intern

Jul. 2026 – Current

- Stabilizing the company's current software stack, addressing technical debt and improving system reliability
- Building automations and managing plugins to streamline internal tools and workflows
- Overseeing the company's website and mobile applications across iOS and Android platforms

IDX Exchange

Remote

Software Development Engineer Intern

May 2026 – Sept. 2026

- Building a full-stack property search application from scratch (React, Node/Express, MySQL) using real-world MLS datasets with non-standard schema structures
- Optimized RESTful API query performance by approximately 65% using indexing and EXPLAIN-based query analysis, enabling scalable search across 50,000+ MLS property records
- Developing dynamic React components (property cards, filters, detail pages, maps) and writing tests with Jest, React Testing Library, and Supertest

University of Central Florida

Orlando, FL

Course Content Reviewer — COP 4932: AI for Software Engineering, launching Fall 2026

May 2026 – Aug. 2026

- Analyzed and refined AI-assisted development curriculum for a new university course, evaluating prompt-engineering modules and software-quality content for technical accuracy ahead of Fall 2026 launch

University of Central Florida

Orlando, FL

Computer Architecture Teaching Assistant

Aug. 2025 – May 2026

- Cut grading turnaround by approximately 50% for a 250+ student course via a standardized rubric system for pipelining and Assembly assignments across 3 sections
- Led technical review sessions covering datapath design, pipelining, and Assembly programming

PROJECTS

WhoOwnsIt | *React 19, Vite, Node.js/Express, Google Gemini API, Financial Modeling Prep API*

Jul. 2026

- Built a product-scanning app at BloomKnights (Knight Hacks @ UCF) that identifies a scanned product's parent company using Google Gemini for product vision and ownership reasoning with structured JSON output
- Integrated the Financial Modeling Prep API to surface real-time stock prices, historical performance, and company profiles for identified parent companies
- Developed a dollar-cost averaging (DCA) calculator with Recharts to visualize what monthly investing in a company could have returned over the past year
- Handled real-world ownership complexity (licensed brands, private companies, foreign parents) and implemented guardrails including ticker validation, delisting staleness checks, and per-user rate limiting
- Collaborated on a 4-person team to design, build, and deploy the full-stack app (React/Vite frontend, Node/Express backend) to Render within a 12-hour hackathon window