Arthur Diniz da Luz

Backend & Full-Stack Software Developer

 Greater Campinas, SP   arthurdiluz@outlook.com   /arthurdiluz   Portfolio

Professional Summary

Bachelor's degree in **Computer Science** from **State University of Northern Paraná (UENP)**, with over **4 years of experience** as a software developer, focused on transforming business challenges into effective technical solutions. My career evolved from corporate environment projects to co-founding an entrepreneurial initiative, which started with freelance projects for the international market and culminated in developing our own SaaS product, Bonchef. **I'm seeking a new opportunity** to apply my product development experience and contribute to challenging projects.

Technical Skills

- **Languages:** JavaScript (ES6+), TypeScript, Python, Golang
- **Backend:** Node.js, NestJS, Express.js, Fastify, Buffalo
- **Frontend & Mobile:** React.js, Next.js, React Native
- **AI, Data & Vectors:** ChromaDB, RAG Architecture, Embeddings
- **Database & Cache:** PostgreSQL, MongoDB, MySQL, Redis, Firebase, Supabase
- **Cloud & DevOps:** AWS (EC2, S3, Lambda, RDS, ECS), Docker, Kubernetes, CI/CD (GitHub Actions, AWS CodePipeline), GCP
- **Tools & APIs:** Git, RESTful APIs, WebSockets, gRPC, Prisma, Swagger

Professional Experience

Co-Founder & Software Engineer @ iOHub Digital

November 2023 – Present

- Co-founded iOHub to develop custom software and provide technology consulting, focusing on the international market. Through **UpWork**, we achieved 100% Job Success in a short time.
- Coordinated teams with freelancers and interns, organizing workflow to ensure quality and timely deliveries.
- **Main Projects at iOHub:**
  - **Bonchef (app.bonchef.com.br):**
    Our first product, a SaaS system for restaurant management. I developed the complete solution stack: the API with **NestJS** and **Prisma**, the control panel with **Next.js** and **React** (**PWA**), and the Desktop app with **Electron**, using **WebSockets** to synchronize orders in real-time.
    * Created the **integrated POS** to centralize orders (counter, phone, WhatsApp) in a single **Kanban**; developed the **digital menu** with QR Code, **item management** with advanced customization, a module for **pizzerias**, and a **mini-CRM** with address search by ZIP code.
    * Designed and implemented the platform's conversational **AI agent**, creating a **RAG (Retrieval-Augmented Generation)** flow with the **ChromaDB** vector database, orchestrated via **Docker Compose**. Developed the service that vectorizes restaurant information using **Google Gemini** embeddings and created API endpoints for semantic search, allowing the chatbot to answer complex customer questions.
    * Developed the **Desktop** app (**Electron**) that works as a hub, connecting the restaurant's WhatsApp to the platform via **official WhatsApp API**, and managing the **print queue** on

thermal printers.

- * For the platform, I created access control with **RBAC**, **audit logs**, notifications via **email** and **push (FCM)**, and a **guided tour** for onboarding. Ensured security with **Argon2** hashing and **rate limiting**, and organized file storage with **AWS S3**.

  - **Leadsy (leadsy.app):**
    B2B lead extraction platform. I worked on developing the system from scratch, creating the backend with **NestJS** for data extraction and the management panel with **Next.js**.
  - **MMarketplaces (mmarketplaces.com.br):**
    Technical consulting for a platform integrated with **Bling ERP**. My contribution was analyzing and optimizing critical API routes, implementing caching strategies to reduce response time in queries.
  - **Okay Bears (okay-bears-beta.vercel.app):**
    Platform for NFT sales on the **Solana** blockchain. I worked on the frontend with **Next.js**, creating components for digital wallet interaction and the transaction process.
  - **Landing Pages:**
    Developed over 100 landing pages for international clients, using **Next.js**, **React**, and **Vue.js** to create static and optimized pages, focusing on integration with different marketing services.

Software Engineer @ Superior Digital
June 2023 – December 2024

- **CertifyMyRent:** Real estate management platform to optimize the rental process and tenant screening. I led the initial full-stack development, creating the database modeling in **PostgreSQL**, the API with **NestJS** and **Prisma**, and the frontend with **React.js**. Implemented a multi-tenant architecture with access control (RBAC) and integrated services like payments via **Stripe** and document management with **Pandadoc**. For infrastructure, I used **AWS EC2**, **S3**, and configured automatic provisioning of **EBS** and **RDS** in CI/CD.
- **Construction Help Finder:** App that connects construction workers to project managers. I worked on system refactoring, fixing critical bugs and adding new features to make it more stable and attractive. Integrated the in-app payment system with **RevenueCat**, and other adjustments until publication on the App Store.
- **Cross Roads Gamification:** Gamification platform for restaurants, focused on improving customer interaction. I developed some of the system's main features, using **Next.js** to create the web version and **AWS Lambda** for a serverless backend, ensuring an efficient and scalable solution.
- **L&Co Store:** E-commerce app focused on fashion. I created the iOS version from the existing Android version and improved user experience by implementing push notifications with **OneSignal**. Also contributed to the application backend with **Supabase**.

Software Engineer @ Kodde
January 2022 – June 2023

- **Madalu:** Beauty service scheduling system. I participated from conception, gathering requirements, defining the data model, and developing the backend foundation in **NestJS**, with **Docker**, **PostgreSQL**, and storage in **AWS S3**. Worked on employee and appointment management rules, handling time conflicts and ensuring reservations were atomic to prevent overbooking. Documented APIs with **Swagger** and also contributed to the frontend with **React** when needed.
- **Kodde Time:** Internal time tracking and timesheet tool for teams. I worked on both backend and frontend, using **Express.js** and **React** to develop new features, fix bugs, and create unit tests with **Jest**.

Intern @ Tata Consultancy Services (TCS)
July 2021 – January 2022

- Started my career with intensive training and working on client projects, consolidating software

engineering fundamentals, version control, and best practices.

- Completed modern web development tracks and Object-Oriented Programming with **Java**, while improving **JavaScript** fundamentals; created REST APIs with **Spring Boot** following layer patterns, DTOs, and validations.
- As a Trainee, worked in technical consulting for **Roche**, using **OutSystems** (low-code) to model processes, automate workflows, and deliver business solutions.

Education

Bachelor's Degree in Computer Science
State University of Northern Paraná (UENP)
March 2017 – December 2023

English Proficiency
Wizard Language School
February 2010 – December 2016

High School
Vinicius de Morais State School
February 2014 – December 2016