

# HENRIQUE CAVALCANTE

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## PROFESSIONAL SUMMARY

Software Engineer with **2 years of professional experience** plus additional freelance and informal projects. Specialized in **web development** integrated with **AI and Cloud technologies**, consistently delivering **high-performance solutions** with an average response time target of **100ms**. **Full-stack developer** capable of building **end-to-end systems**, from **requirements gathering** and transformation into **user stories and business rules**, through design and development. Proven expertise in integrating **AI models (GPT, Claude)** into production web applications and implementing **scalable architectures** that drive business value and operational efficiency. Strong focus on **end-user experience**, identifying user pain points and aligning technical solutions with **UX principles** to create intuitive, accessible, and satisfying interactions.

## TECHNICAL SKILLS

### AI & Data:

AI Integration (GPT, Claude), ML Model Development, Data Visualization, ML-Web Integration

### Programming Languages:

TypeScript, C#, Python, SQL

### Frameworks & Libraries:

React, Next.js, Node.js, ASP.NET, Tailwind CSS

### Databases:

PostgreSQL, MySQL, SQL Server

### DevOps & Tools:

Azure DevOps, Git, VS Code

### Methodologies:

Agile, Scrum

## PROFESSIONAL EXPERIENCE

### Software Engineering Consultant - N1

*1500fh | São Paulo, Brazil*

2025 - Current

- Develop enterprise management systems for major corporations including AMBEV, delivering solutions that optimize operational efficiency and reduce costs
- Collaborate with stakeholders to identify process bottlenecks and deliver technical solutions that enhance productivity and performance
- Apply best practices in software engineering to ensure system reliability and minimize downtime, protecting client revenue and maintaining service continuity

### Web and Data Development Intern

*Máquina de Sistemas | São Paulo, Brazil*

2024 - 2025

- Built and deployed machine learning models for financial data analysis and forecasting, enabling data-driven investment decisions and risk assessment
- Developed interactive dashboards and visualizations of financial trends that empowered stakeholders to identify profit opportunities and cost-saving measures
- Processed and analyzed large financial datasets to uncover patterns that informed strategic business decisions and budget optimization
- Implemented automated data pipelines that reduced manual analysis time, allowing teams to respond faster to market changes and financial opportunities

### Researcher

*IFSP | São Paulo, Brazil*

2024 - 2024

- Conducted research in cybersecurity, computer networks, and machine learning with focus on DNS and passive DNS (pDNS) data analysis
- Developed methodologies to detect security threats and network anomalies, contributing to solutions that protect organizational assets and prevent costly breaches
- Applied machine learning techniques to identify patterns in network traffic that could indicate malicious communications
- Published the results in article format

## EDUCATION

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### **Bachelor's Degree in Computer Science**

*Federal Institute of São Paulo (IFSP) | Presidente Epitácio, SP*

2021 - 2024

- Graduated with Academic Merit Award for outstanding academic performance

### **Technical High School in Mechatronics**

*Federal Institute of São Paulo (IFSP) | Presidente Epitácio, SP*

2018 - 2020