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To whom it may concern,

During the Bachelor's degree program in Software Engineering at PUC Minas, I had the opportunity to be Flávio's professor in four fundamental disciplines for his education: Algorithms and Data Structures I, Interdisciplinary Project III: Applications for Real Scenarios, Software Project, and Software Development Lab. Furthermore, I had the pleasure of mentoring him in extracurricular activities and real-world market projects, which allows me to state, with confidence, that he is a student and professional of exceptional technical, academic, and ethical performance.

Right in the first semester, in Algorithms and Data Structures I, Flávio stood out due to his commitment and above-average intellectual curiosity. He went beyond the content proposed in class, always seeking to expand his knowledge and delve into the fundamental concepts of algorithm structuring and analysis. It was common to see him, at the end of classes, discussing alternative implementations, complexities, and code best practices with me. From the beginning, he became a reference among his peers, assisting them with doubts and fostering a collaborative learning environment.

Also in that semester, he participated with me in a personal side job project I had idealized, focused on the automated analysis of GitHub repository metrics. Flávio took the lead on the initiative and, together, we developed in pair programming the GitHub Metrics project, where he implemented automated workflows with GitHub Actions to generate commit metrics, contributions, and code analyses. This experience, especially notable for the technical maturity demonstrated so early on, evidenced his practical understanding of continuous integration, engineering process automation, and activity traceability in repositories, in addition to his capacity for collaboration and technical initiative in real development contexts.

Flávio also excelled in my weekly software development workshops, DevLabs, where he participated actively in practical activities and collaborative projects. He demonstrated excellent performance with Python, performing data scraping and developing creative and efficient solutions. During these workshops, he taught me how to use Tkinter, a Python library for graphical interfaces, allowing me to acquire new knowledge and apply it to my own projects. His constant and proactive participation demonstrated not only advanced technical skills but also a collaborative spirit and a willingness to continuously expand his knowledge repertoire.



In the third semester, in Interdisciplinary Project III, Flávio was the protagonist of one of the best student projects—the “Fabiana Móveis”, a project that stood out enough to receive certification and an award as the semester's highlight project. The client, Mercantil Comercial Fabiana LTDA, a company with four units in the North Vector of Belo Horizonte, faced complex logistical challenges in managing delivery routes for furniture and appliances. Flávio and his team developed a complete system that automates and optimizes delivery logistics, featuring dynamic routes generated according to daily demand, registration of managers and drivers, a control panel (dashboard) with weekly delivery indicators, and custom reports by period, enabling operational improvements based on real data.

The project was developed using TypeScript, NestJS, Node.js, and React.js, containerized with Docker, and deployed to the cloud, demonstrating a mastery of modern full-stack web development technologies. This practical and robust solution had a real impact on the partner company, which expressed satisfaction with the result.

Still in the same semester, recognizing his talent, I recommended Flávio to Professor Angélica Guimarães, who invited him to join the team at Jedis Tecnologia e Recrutamento, where he served as a software development intern. There, he played an essential role in the reconstruction of the Rhapsody system, resulting in the creation of Rhapsody 2.0—an intelligent platform for selective process management based on artificial intelligence.

Rhapsody 2.0 offers intelligent resume screening, real-time candidate journey tracking, and automated compatibility analysis between profiles and vacancies. The system also allows for personalized sectors, simultaneous management of multiple vacancies, an internal resume bank, and the JDScan tool, which integrates the DISC methodology and the USP model for behavioral assessment. Flávio's contribution was decisive in modernizing the product's architecture, performance, and reliability, demonstrating an advanced technical level for his academic stage.

In parallel, Flávio also worked with me at the Experimental Software Agency (AES) of PUC Minas, which I coordinate, an institutional program that connects students with real projects of social and technological impact. In this experience, he participated in the “Cuido Bem” project, developed in partnership between the PUC Minas, the Mário Penna Institute, and the Clinical Physiotherapy Center of PUC Minas, aiming to support the de-hospitalization process of oncology patients. Flávio contributed to the back-end with Spring Boot, developing robust and scalable solutions, and also implemented unit tests with Mockito, reinforcing software engineering best practices and ensuring high quality in the delivered code. The project also used Dart and Flutter, expanding his exposure to multi-platform environments and demonstrating his technical versatility.

In Software Project, during the fourth semester, Flávio delved into software architecture, design patterns, and UML modeling, distinguishing himself through his technical maturity and ability to abstract and design complex solutions.



Motivated by genuine curiosity, he acquired and studied the book "Clean Architecture" by Robert C. Martin (Uncle Bob), applying concepts of cohesion, coupling, modularity, and separation of concerns in his activities.

During the same period, in the Software Development Lab discipline, Flávio demonstrated interest in Next.js, a framework with which he produced excellent applications practical. One of the main projects developed was his professional portfolio, built with Next.js, React, and Tailwind CSS, inspired by the interface of an operating system, simulating a taskbar, start menu, and interactive windows—a creative, interactive, and technically solid approach.

Concurrently, when Professor Angélica was hired by CDC Bank - Soluções em Tecnologia para Pagamentos, she made a point of bringing Flávio with her, this time as a PJ developer (contractor), in his first effective professional experience. Simultaneously, Jedis Tecnologia, recognizing his value, maintained a PJ contract on Saturdays so that he could continue collaborating on Rhapsody 2.0.

At CDC Bank, Flávio further expanded his technical repertoire, working with PHP, CodeIgniter, RabbitMQ, and Next.js, which are technologies for modern back-end, messaging, and front-end, consolidating a versatile and multidisciplinary professional profile.

It is important to emphasize that Flávio lives a considerable distance from the university and balances an intense routine of work and studies without affecting his punctuality, attendance, or the quality of his academic deliverables. His discipline, organization, and resilience are exemplary and serve as an inspiration to his colleagues and to me.

His dedication, even in the face of logistical and time challenges, inspires me deeply to write this letter with commitment and diligence. I am genuinely proud to be part of his professional and academic journey, closely following his evolution as a student and software developer.

In February 2026, when he will be in his fifth semester of the course, I will again have the pleasure of having him as a student in the Fundamentals of Algorithm Design and Analysis discipline. I am certain that he will continue to demonstrate the same intellectual brilliance, commitment, and enthusiasm for learning that have marked his entire trajectory so far.

Flávio has already expressed interest in enrolling in a Master's program, and I recommend him with conviction. His solid technical profile, combined with his intellectual curiosity, capacity for autonomous learning, and commitment to excellence, make him a highly promising candidate for academic life and scientific research.

I am certain that Flávio will contribute significantly in any environment of research, innovation, and software development, uniting theoretical depth, technical mastery, and practical sensibility—indispensable attributes for someone intending to follow the path of a researcher and excellent software engineer.



For any additional information, please contact me at: +55 31 98040-2103 or joaopauloaramuni@gmail.com

Sincerely,

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