

Joao Victor Cardoso Kdouk

Valinhos, São Paulo | +55 (19) 97132-6405 | joao@kdouk.com | linkedin.com/in/jvkdouk

Education

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| 2025 – 2027 | HARVARD UNIVERSITY
<i>M.E. in Computational Science and Engineering</i>
Starting in September 2025 | Boston, MA |
| 2020 – 2024 | GEORGIA INSTITUTE OF TECHNOLOGY
<i>B.S. in Computer Engineering. System Architecture & Distributed Systems</i>
GPA: 4.0/4.0; Dean's List | Atlanta, GA |

Experience

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| 2023 – Now | NEBO AGENCY, LLC
<i>Backend Engineer</i>
Responsible for managing million-dollar retainer Software projects in the field of home construction and sale. Performed decision making and handled complex, high-performance feature development, involving technologies such as Ruby on Rails, Node.js, DevOps, Multivariate Testing, AWS, and Cloud-based Infrastructure. Started as an intern and quickly grew in the company. Projects currently generate \$2M+ in annual revenue. <ul style="list-style-type: none">Improved system response time by up to 90% using techniques such as Cloudfront full page caching, flame graph analysis and optimization, and database replication and load balancing.Developed and maintained a benchmarking tool for analyzing performance bottlenecks within document load time and page rendering delays, improving debugging and work efficiency by 60%.Engineered an automatic form testing tool to facilitate the process of QA and integration of new forms across the platform, making the PM's task of testing form functionality 10 times faster.Implemented a linear regression tool for a \$10M+ annual revenue project to fit digital marketing spend to customer conversion, achieving a 87% fit between forecast and real world data. | Atlanta, GA |
| 2017 – 2019 | NOVASSIST, LTDA
<i>Founder & Chief Technology Officer</i>
Handled the on-boarding of new projects and contracts. Provided leadership to a team of three engineers, supporting the development software-based contracts worth tens of thousands of dollars, ranging from contracts in the educational field to the planning and engineering of complex systems to aid industrial machine maintenance. Left the company in 2019 to pursue my undergraduate degree. <ul style="list-style-type: none">Aided the acquisition of new contracts through customer meetings, architectural planning, cost analysis, and agile-based project management, leading to a total of four projects and \$20K worth in contracts at the time.Planned and led the transition from Apache Cordova to React Native, rewriting a codebase of ~10K lines of code in a single month without downtime, resulting in an improvement of 87.5% in response time for user interaction.Implemented Git best practices, Continuous Deployment and Integration (CI/CD) pipelines, automatic unit and integration testing, and clear QA guidelines, decreasing deployment time by 85%.Engineered the company's infrastructure on AWS using technologies such as Linux (Server), PostgreSQL (Database), and Redis (Cache), leading to cost reduction of 53% compared to the previous provider. | São Paulo, Brazil |

Leadership & Activities

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| 2020 – 2024 | GEORGIA INSTITUTE OF TECHNOLOGY
<i>Team Leader, Teaching Assistant, and Researcher</i> <ul style="list-style-type: none">Supported 1000s of students as a Teaching Assistant for the Design of Operating Systems and Digital Design courses. Held the position of Head Teaching Assistant, managing a team of ten other teaching assistants in the Spring of 2024.Awarded Team Leader of the Year in November 2023 for leading the Freshman Seminar, driving the successful transition of hundreds of students into the Georgia Tech undergraduate community.Assisted and led research in the field of Large Language Models, culminating in the presentation of a paper at the ASPLOS Wild & Crazy Ideas 2023, Vancouver, Canada. | Atlanta, Georgia |
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SKILLS & INTERESTS

Programming Languages: Rust, JavaScript (10 years of experience), TypeScript, Python, Java, C, C++, SQL, Ruby
Frameworks and Tools: React.js, Node.js, Next.js, Ruby on Rails, AWS, Linux, Git, React Native, PostgreSQL, MySQL
Methodologies: Agile Project Management (Scrum, Kanban), Extreme Programming, DevOps, Lean, User-Driven Design
Communication: Sales Pitch, Professional and Academic Presentation, LaTeX Proficiency