

Tiberius Dourado

+55 21 982-666-721 | <https://github.com/TiberiusNemesis> | tiberiusthefifth@gmail.com | Remote - Brazil

Professional and Technical Skills

- Over 7 years of software engineering, with strong **full-stack** development experience
- Expertise in **Python, TypeScript, Node.js, Go, PostgreSQL**, with great depth in **Flask, FastAPI, Bun, and MongoDB**.
- Expertise in **React, Next.js, TypeScript, Redux, TanStack Query, Jest, Vite, Tailwind CSS** for frontend development.
- Strong experience creating **LLM API integrations, MCP servers, automation workflows**, and incorporating **AI-assisted development tooling**, e.g. **Claude Code** autoruns via **Cyrus** locally and via **Cloudflare workers, Codex** and **CodeRabbit automated code reviews**
- Delivery of scalable, low-latency services and responsive, accessible UIs for US-based and global enterprise.
- Proven leadership roles and hands-on **technical and functional expertise** in software engineering.
- Over 4 years of experience using **AWS Lambda, EC2, ECS, CloudWatch, S3, SNS, EventBridge, Cognito, RedShift, ELB, DynamoDB, SQS, CloudFront, RDS, Route 53, SSM**.
- Led international teams through the full software development lifecycle, from idea to production deployment.
- Over 7 years experience in **web development**, with **ecommerce, healthcare** and **financial sector solutions** delivered.
- **Database modeling** and design with strong architectural and analytical skills - 3NF and STAR schema.
- Experience with **PostgreSQL, Oracle DB, MySQL, MariaDB, MongoDB, Redis, DynamoDB, RDS**
- Established **CI/CD processes** including **test automations, containerization, Docker, Kubernetes, shell scripting**.
- Experience with container orchestration, **Kubernetes** deployment with **Helm, ArgoCD, Terraform** and **CloudFormation**.
- Exposure to **ETL development, data pipelines**, and **data warehousing** tools.
- Daily usage of tools such as **Linux, SQL, XML, HTML, ASP, AJAX, JSON, YAML**.

Experience

Xometry | North Bethesda, MD

Senior Software Engineer | 07/2024 - Present

- Engineered mission-critical order fulfillment systems enabling real-time visibility and tracking across Xometry's global manufacturing network, processing thousands of daily shipments between customers, partners, and fulfillment centers using **Python, Flask, Go, React, TypeScript, MongoDB, AWS Lambda**, and **event-driven microservices architecture**.
- Led a major system refactor to implement comprehensive return merchandise authorization (RMA) capabilities, transforming the company's product return processes while ensuring zero-downtime deployment through **Kubernetes** orchestration with **Helm** charts, **GitHub Actions** pipelines, and **blue-green deployment** strategies.
- Developed automated email notification systems for order status updates and shipping confirmations using **AWS Lambda** functions integrated with **SendGrid**, handling millions of transactional emails monthly with 99.9%+ delivery rates and real-time tracking capabilities.
- Served as technical liaison between engineering, operations, and business stakeholders to resolve complex shipping and order management challenges, enhancing the reliability of enterprise resource planning systems through improved **API design**, comprehensive monitoring with **CloudWatch, Coralogix** and **OpenTelemetry**, forming a robust and proactive alerting system.

Tailwind Business Ventures LLC | Austin, TX

Senior Software Engineer & Team Lead | 09/2022 - 07/2024

- Led the development of multiple enterprise-level applications for the financial, retail, and industrial sectors using the latest technologies of **Node.js, TypeScript, React, Go, Python, MongoDB, PostgreSQL, MySQL, RabbitMQ, WebSockets, Lambda, Kinesis, DynamoDB, S3, SQS, Redshift, CloudWatch**, and other **AWS** systems that serve millions of requests daily.
- Collaborated with international teams to build and integrate a **real-time analytics platform** for a client in the financial sector industry, with a **scalable, low-latency event-driven architecture** running on auto-scaling **microservices and serverless functions**, using clever **cloud cost optimization strategies** that reduced costs by 30% of the original estimate.
- Implemented and maintained key systems such as payment services, authentication, card management, facial recognition, QR code readers, and ADA-compliant interfaces for clients in **mobile and web banking applications**, improving security and user experience for millions of customers on the Temenos Banking Platform using **TypeScript, Node.js, React Native, AWS Cognito, and AWS Rekognition**.
- Efficiently delivered multiple user stories ahead of schedule by **bridging communication gaps** between stakeholders, engineers, and product teams, saving over 1000 hours of developer work time.
- Recognized for outstanding performance, receiving accolades from one of the largest credit unions in the United States, and earning a glowing recommendation for excellence.

The Marlo Group | Melbourne, VIC

Senior Backend Engineer | 05/2021 - 09/2022

- Spearheaded projects for international clients based in Australia and Thailand using a wide range of web technologies, including but not limited to: **Go, Python, Spring Boot, JPA with Hibernate**, XML/JSON libraries such as **xQuery, XSLT, JAXB, Jackson, JQ and GSON**, RESTful APIs, SOAP APIs, GraphQL, **ElasticSearch, Kibana, Tomcat/NGINX servers, ActiveMQ, RabbitMQ, PostgreSQL, MySQL**, and **H2 databases**, **Flyway database migration, Docker, Microservices, Kubernetes, OAuth2, JWT, unit testing, integration testing, E2E testing**.
- Led the end-to-end development of a **microservice architecture** system for a popular Australian liquor store chain, capable of processing thousands of requests per minute using **asynchronous communication** with liquor suppliers, enabling a retail business to earn **over AU\$600,000** in yearly revenue.
- Mentored a team of junior software engineers in the company's internal training process, upskilling several valuable resources in the topics of **clean code, clean architecture, DevOps practices**, and building **scalable backend systems**.
- Continuous integration/deployment pipelines (GitLab CI and Jenkins), pull requests, code reviews, load/stress testing

Epimed Solutions | Rio de Janeiro, RJ

Backend Software Engineer II | 08/2020 - 05/2021

- Built and optimized **integrations and business logic** in clinical systems in use by hundreds of thousands of patients in Belgian, French, Brazilian, and Uruguayan hospitals, using **JavaScript, Node.js, Nest.js, React, Apache Kafka, Prometheus, Grafana, Microsoft SQL Server**, and **HL7** standards.
- Developed and improved ICU monitoring applications used in the healthcare sector during the ongoing COVID-19 pandemic, allowing healthcare facilities to better distribute their resources and personnel, **decreasing the likelihood of COVID-related deaths and complications by up to 34%**.
- Adhered to **agile methodologies, Scrum/Kanban practices**, and led meetings with great communication skills during remote work lockdown, ensuring timely project delivery

Bahia Asset Management | Rio de Janeiro, RJ

Junior Software Engineer | 09/2018 - 08/2020

- Developed monitoring applications to track the performance and health of financial assets in real time, utilizing technologies such as **Node.js, Python, Microsoft SQL Server**, and **Visual Basic (VBA)** to process and visualize data.
- Implemented **web scraping algorithms** using **Scrapy, BeautifulSoup, Selenium, and Playwright** to extract financial data from multiple websites and APIs, ensuring **accuracy and data reliability** for analysis and decision-making processes.
- Collaborated with senior engineers and data analysts to design and implement scalable solutions for analyzing **large volumes of financial data**, contributing to the optimization of investment strategies and risk management practices.
- Utilized **JavaScript, Node.js, Nest.js** to create **RESTful APIs** for accessing and distributing financial data to internal systems and third-party applications, enhancing interoperability and **data accessibility** across the organization.

Contract & Independent Work

SFR3 Fund | Austin, TX

- **Sole developer of my.americanave.com**, a tenant portal enabling residents to manage leases, payments, and maintenance requests.
- Using **Next.js, Python, FastAPI, ECS, Lambda, DynamoDB, Kafka**, delivered from concept to production in under 5 months, consolidating work previously spread across three frontend developers.
- Built an **automated LLM-powered reporting system** that generated configurable weekly/monthly summaries of repository activity and posted those to Slack, improving engineering visibility

Scale AI | Remote

- Trained and evaluated LLM agents on code generation, reasoning, tool use and task completion through the Outlier platform, contributing to model improvement for production AI systems and models.

Additional Skills

Express.js, Nest.js, Django, Kotlin, Maven, Gradle, Prometheus, Elasticsearch, Grafana, Kibana, JQuery, NoSQL, Git, XML, AWS, Cloud Computing, Blockchain, Smart Contract, Vyper, Solidity, Cryptocurrency, XUnit, CI/CD, Jenkins, CircleCI, Microservices, REST, SOAP, gRPC, GitLab CI, GitHub Actions, Terraform, ActiveMQ, Kafka, RabbitMQ, gRPC, Drools, Ansible, ArgoCD, Helm, OOP, Agile Methodologies, English (Native), Portuguese (Native), Spanish (Advanced), Italian (Working proficiency), Mandarin (Novice, HSK 2)

Education

Fluminense Federal University | Rio de Janeiro, Brazil

Computer Science | 12/2022

- Transfer student, ranking no. 2 in the qualifying exam for federal university transfers.
- Achieved conversational level in Mandarin Chinese through participation in Confucius Classroom, a partnership between Fluminense Federal University and the Hebei Normal University.

Personal Projects

AI-Powered CI/CD Assistant

- Built an intelligent CI/CD monitoring tool + Slack Bot that analyzes job failures in GitHub Actions using low-cost LLMs (via Groq Cloud), automatically notifying developers through Slack DMs with actionable debugging suggestions and root cause analysis.

Decentralized Voting Platform

- Using Blockchain technology, Go for the backend API, and Solidity for smart contract definition, my college thesis was a POC platform enabling secure and transparent electoral processes through the Ethereum blockchain as a potential replacement for Brazil's current electronic voting system.
- Developed smart contracts with Solidity to ensure secure and tamper-proof voting logic and automated tallying
- Implemented a robust backend with Go to interact with Ethereum nodes via JSON-RPC
- Features comprehensive unit and integration testing of contracts and backend services with over 90% code coverage, guaranteeing reliability

Codebound

- A knowledge base focused on software engineering and computer science concepts, with an implementation of algorithms written in Golang to automatically find relationships and link related subjects using a weighted graph structure.