

Lucas Kenzo Murakami Tada

Technology Trainee · Full Stack Development · AI and Data Analysis

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SUMMARY

Computer Science student at Instituto Mauá de Tecnologia (graduating Dec 2026, GPA 9.3/10) who has shipped projects for real partners: SPTrans, Centro Universitário São Camilo and a multinational automotive company. For my capstone I built end to end the digital twin of an autonomous truck in Python (CARLA, YOLO, Kalman filter) and the interactive 3D web model that shows it (Next.js, React Three Fiber). I led the front end of a face recognition app with 95% accuracy and wrote AI agents that reviewed 1,000+ GitHub pull requests and issues. Available full time from January 2027.

EXPERIENCE

Engineering Intern — SBN Engenharia | Jan 2026 – now

- Automated e-mail dispatch and control spreadsheets in Python, saving about one hour of work per day.
- Produced architectural drawings, floor plans and 3D models in AutoCAD, Revit and Tripo 3D (AI) for 5 projects and active construction sites.

IT Teaching Assistant — Instituto Mauá de Tecnologia | Feb 2024 – now

- Support a base of 500+ IT students across every computing course: programming logic, OOP, relational and NoSQL databases, front end, UX, algorithms and data structures, programming paradigms, cross-platform development, software engineering, agile, statistics and discrete math.
- Run review sessions for about 10 students and exam-prep lectures for about 50, with my own study material, and help professors plan classes.

PROJECTS WITH REAL PARTNERS

MOVER capstone — Digital twin of an autonomous truck (multinational automotive company) | 2025 – 2026

- Built end to end the truck's navigation in Python on the CARLA 0.9.16 simulator: perception with YOLO, LiDAR and cameras; GNSS + IMU fusion with a Kalman filter; Pure Pursuit control.
- Converted the real topographic survey (DXF) into an OpenDRIVE map with 34 roads, 4 junctions and 1.56 km, checked by an automated pipeline; SQLite telemetry, live and replay dashboards and 362 offline tests.
- Shipped the interactive 3D campus model (Next.js, React Three Fiber, Playwright): 2.9 MB site, 3D model compressed to 0.4 MB.

GiTeam — AI code review platform | Jan 2025 – May 2025

- Wrote the AI agent logic (OpenAI and Anthropic) that reviewed 1,000+ GitHub pull requests and issues and posted the reviews automatically.
- Built the Python back end (FastAPI, PostgreSQL) with GitHub OAuth and webhooks.
- Set up the serverless AWS architecture (Lambda, SQS, API Gateway) as infrastructure as code (AWS CDK), with cost tracking for AI calls.

Face recognition for access control — SPTrans | Jun 2024 – May 2025

- Led the React Native front end of a 6-screen app and website, prototyped in Figma, in a team of 4.
- Integrated Firebase and the ChatGPT API for face recognition with 95% accuracy in about 5 seconds.
- Ran the team in Scrum and set up continuous integration with GitHub Actions.

FEEDIT — Project lead — Centro Universitário São Camilo | Feb 2024 – May 2024

- Led a team of 4 through 4 sprints and delivered a working nutrition app in a virtual-pet (tamagotchi) style.
- In demo tests, users cut their daily intake by up to 400 kcal.
- Gathered requirements with the client and turned feedback into a prioritized backlog.

EDUCATION AND LANGUAGES

B.Sc. in Computer Science — Instituto Mauá de Tecnologia | Jan 2023 – Dec 2026

- GPA 9.3/10 across the 23 graded courses of the first two years.
- Portuguese: native · English: fluent reading, writing and listening; advanced speaking.

SKILLS

Languages: Python, TypeScript, JavaScript, Java, SQL · **Front end and mobile:** React, Next.js, React Native, Tailwind CSS, Three.js / React Three Fiber, Figma · **Back end and data:** FastAPI, Node.js, PostgreSQL, SQLite, Firebase, pandas · **AI:** OpenAI / Anthropic APIs, AI agents, YOLO, Kalman filter · **Cloud and DevOps:** AWS (Lambda, SQS, API Gateway, CDK), GitHub Actions, Git, Azure DevOps · **Methods and tools:** Scrum, Project management, Excel, AutoCAD, Revit

COURSES AND CERTIFICATIONS

Oracle Academy: Oracle Java Foundations; Oracle Java Certified Professional · **AWS Academy:** AWS Academy Cloud Foundations, Developing, Operations and Architecting (3 months each) · **AWS Academy / CEUN-IMT:** Cloud Computing Fundamentals · about 6 months each unless noted.