ALEX SANTIAGO
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EXPERIENCE

AMAZON AUDIBLE - *SOFTWARE ENGINEER*   *Oct 2024 - Present*
- Migrated the version of a brazilGradle project from 7x to 8x and fixed multiple dependencies conflicts to solve gordian knot scanner issues
- Added code review automation workflow into a pipeline through **AWS CDK**
- **Fixed pipeline resource duplication errors** by implementing environment-specific suffixes for resources and successfully re-deploying the pipeline.

IMPULSO TRANS - *SOFTWARE ENGINEERING INTERN*   *May 2024 - Sep 2024*
- Developed the admin modules aiming to automate and optimize the management of online appointments and medical subscriptions
- Implemented a **role-based access control** system using **Laravel Spatie**, enhancing security and user management
- Integrated metrics and analytics dashboard using **Chart.js**, enabling to track key performance indicators including user demographics, appointment statuses, and subscription trends over time

ZOHO CORP – *MACHINE LEARNING ENGINEER*   *April 2023 - May 2024*
- Traveled to the HQ in Chennai, India t**o discuss and present technical progress** in meetings with the team
- Researched **ML** and **Deep Learning papers** to identify optimal solutions for log anomaly detection.
- Developed **DeepLog** and **LogAnomaly models in PyTorch**, **achieving a 0.81 z-score**, improving system monitoring and anomaly identification**.**
- Migrated project to **Deep Java Library** for deployment and lower infrastructure costs. Made this a library for **client usage**
- Leveraged **RNNs, LSTMs, PCA, MLPs & NLP** techniques as well as a proper follow up **life cycle ML standards**

IMPACTOS DIGITALES – *SOFTWARE ENGINEERING*   *Aug 2022 - Feb 2023*
- Developed the system **architecture and DB scheme** for the food delivery service of the **International Airport of Querétaro**
- Supervised mobile developmen**t, allowing users to browse menus, select payment methods, and track order progress.** Made on React Native
- Integrated **real-time order notifications** into the web platform and designed a metrics dashboard to analyze sales data
- Led the redevelopment of a technical inspections system, **automating the process of filling out technical forms**, including stage, file uploads, checkboxes, annotations and different user permissions
- Deployed project within a tight deadline of under 3 months. **Overcoming the earlier development delayed 1 year**
- Worked for a government web app (CANACO)**. Added functionalities to 6 distinct user types**. Incentivized participation by **rewarding users with improved visibility based on their platform engagement** through SQL queries

FREELANCER, ENTREPRENEURSHIP - *SOFTWARE ENGINEERING*   *Nov 2022 – Present*
- Built an activity management system for Mitsubishi Materials employees by submitting their activities, reminders through emails, Leads can track pending-current-done activities, approve, view comments and changes
- Developed a **Telegram bot using Python and web scraping**, enabling users to find the best deals and coupons from 2 big e-commerce sites. **Increased subscriber base by 35+ users**. Plans on adding more sites. The bot is deployed on Heroku
- Created a humane chat mobile app for children with speech difficulties by **translating words to mouth signals and hand sign language**. Made in Flutter/dart using BloCs
- Created localhost CRUD system using PHP, MySQL, JS, HTML & CSS for a client's warehouse tooling needs
- **Built and deployed 5 AI projects in 5 weeks** using React JS, Next.js, Firebase, Clerk, Stripe, RAG concepts, and Vercel and incorporated CI/CD practices for iterative deployment while collaborating with a team of 3 engineers achieving +150 users in 2 projects and iteratively worked on user feedback.

HACKATHONS

2 HACKATHON WINS
- Launched 2 web apps with an average **5+ hours spent on ideation** and 15+ hours spent on design and development
- Investigated **user segment** pain points and created persona **customer journey** when pitching touch-feel interactive demos
- Implemented novel features like web scraping and openAI, with design patterns like singleton classes, MVC, etc

Secured Interview with recruiter @ HeadstarterAI Olostep Hack | *+4000 Fellows* | *Demo*   *Aug 2024*
- Built an AI browser Agen*t* that scrapes sites from its URLs to extract summaries, related info, images, tags, subsites, etc, achieving over **+100 users within 2 days**. Used CI/CD, Express, PlayWright, MongoDB, OpenAI, React, Heroku and Vercel.

2nd Place HackMty Capital One | **Best MongoDB usage** */+200 PROFESSIONALS* | *Demo*   *Sep 2024*
- Created a FinVents aim to address financial challenges by ensuring transparency and effective financial management. Used MERN stack and Llama Index AI RAG for chatbot.

EDUCATION

Bachelors, Software Engineering at Universidad Tecnológica de Querétaro   *Sep 2024*
- *TOPICS: Full Stack Development,* Product Strategy, Market Research, UI/UX Design, Agile (Scrum, Kanban), Machine Learning,

Diploma, Computer Science at University of Texas at Austin   *Nov 2023*
- *TOPICS:* OOP, BIG O, Algorithms, File management, Java, Python

SKILLS & ADDITIONAL INFORMATION

Technical: JavaScript (3 yrs), Java (2 yrs), Python (2 yrs), SQL/NoSQL (3 yrs), PHP (1.5 yrs), UX/UI HTML/ CSS (3 yrs) | React, Angular, Mongo, Express, Laravel, CodeIgniter, Spring boot, Firebase, AWS cloud, Azure, PyTorch, Tensorflow, Pandas, Sci-kit, Flutter, React Native, REST APIs, Git

Creative: Leadership, Teamwork, Delegation, Stakeholder Management, Agile

Certs: Google Data Analytics, Machine Learning Specialty, AWS Cloud Practitioner (in progress)

Interests: Gaming, calisthenics, traveling, automating, running, DJ, events, tech, politics, maths,

Activities: Headstarter AI Fellow | Advanced Mathematics course | Voluntary technology Expert