

Education

Monterrey Institute of Technology

Bachelor of Science in Computer Science

Mexico City, Mexico
Aug 2017 – Jun 2022

- **Grade:** 95.5% (4.00 GPA)
- **Honors:** *Summa cum laude*, highest grade among program graduates

Autonomous University of Madrid

Bachelor of Science in Computer Science

Madrid, Spain
Sep 2021 – Jan 2022

- Student exchange program

Experience

Solana Labs

Open Source Fellow

Remote (via MLH Fellowship)
May 2022 – Aug 2022

- Launched the Solana Bounty Program (solana-bounty-program.vercel.app), an open-source Next.js DApp written in TypeScript that streamlines the process of managing, funding, and claiming bug bounties (i.e., crypto rewards given to developers in exchange for fixing software bugs) hosted on the Solana blockchain.
- Automated the bounty lifecycle with Drill, an on-chain program that generates a fund-holding token address via GitHub Actions each time a new GitHub issue containing bounty metadata is posted to the Solana Bounty Program repository.
- Adopted the GitHub API along with Solana's SPL Token and Web3.js libraries to enable role-segregated client-side operations such as fetching user profiles, opening and closing bounties, and funding and claiming bounties on the condition that the user has a crypto wallet connected to the platform.
- Contributed to virtually every aspect of the project, from full-stack development (React, SWR, and Tailwind CSS on the frontend; Next.js API routes and server-side rendering on the backend) to project management and prototyping in Figma.

Microsoft

Software Engineering Intern

Bellevue, WA
Jun 2021 – Aug 2021

- Designed and built a searchable, filterable, and paginated user directory for Supply Chain Insights (dynamics.microsoft.com/supply-chain-insights), a new C#/TypeScript SaaS offering under Dynamics 365, taking full ownership of both the frontend and the backend.
- Created a production-grade UI with React by providing fully functional components including a search box, a filter pane, pagination controls, and user information tiles, as well as client-side API call methods with Axios.
- Configured an ASP.NET Core GraphQL server leveraging Hot Chocolate in conjunction with Entity Framework Core, the latter of which enabled access to user data stored in SQL Server.
- Achieved over 70% code coverage by unit testing with Jest and React Testing Library, resulting in my frontend contributions being shipped.

Omnitracs

Automation Engineering Intern

Mexico City, Mexico
Aug 2020 – Feb 2021

- Built a test automation suite from scratch with Python, Robot Framework, and Selenium following the Page Object Model design pattern.
- Verified proper data synchronization between a modern web application and a legacy one via UI and REST API validation scripts, helping the company obtain a compliance certification in Canada.
- Automated the generation of preconditions for another test automation suite written in JavaScript, Cypress, and Cucumber (Gherkin) under a behavior-driven development approach.

Featured projects

Personal website and blog (reyesmanrique.com)

- Designed, built, and deployed my personal website and blog, a Next.js application written in TypeScript encompassing both statically and dynamically generated pages with a focus on accessibility and internationalization.
- Leveraged Chakra UI and Framer Motion to deliver a responsive, consistent, and aesthetically pleasing user experience featuring site-wide animations and light/dark mode switching.
- Prioritized SEO by ensuring that all routes are statically pre-rendered at build time from MDX sources, even pages with dynamic content such as blog posts, as well as adding relevant fields (e.g., Open Graph meta tags).

Body measurements estimation microservice (in collaboration with Amazon)

Jan 2020 – Jun 2020

- Participated in an Amazon-sponsored college program aimed at enhancing online clothing shopping during which weekly meetings were held with Amazon employees to monitor progress.
- Engineered a Node.js microservice that estimated body measurements from images using a pre-trained deep learning TensorFlow.js model.
- Deployed said microservice to AWS (DynamoDB, EC2, S3, SQS) as part of a distributed web application that generated custom 3D avatars and filtered search results by clothing size based on estimated measurements.

Skills

Technologies

- **Computer languages:** C, C#, CSS, GraphQL, HTML, JavaScript, Python, SQL, TypeScript
- **Libraries and frameworks:** Chakra UI, Cypress, Flask, Gatsby, Jest, Next.js, NumPy, Pandas, React, React Native, Redux Toolkit, SWR, Tailwind CSS
- **Software:** AWS, Docker, Figma, Firebase, Git, Linux, MongoDB, MySQL, Postman, Prisma, Vite

Licenses and certifications

- **Deep Learning Specialization** by DeepLearning.AI
- **Leading Digital Transformation** by Massachusetts Institute of Technology

Spoken languages

Native Spanish, full professional English, elementary French