

Miguel Jover Torres

SOFTWARE ENGINEER

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TECHNICAL SKILLS & TOOLS

Languages: TypeScript + JavaScript, Java, Python, HTML, CSS, C/C++/C#, SQL

Development: Node.js, Trello, Slack, Google & ChatGPT prompts

DevOps & CI/CD: Git, GitHub, Kubernetes, Docker, BitBucket, Linux/Unix, Script automation, Bash, NPM, YPM

Frontend: React, Radix UI/shadcn, TailwindCSS, Bootstrap, Figma & Figma Prototyping

Backend: Next.js, NextAuth.js, Resend, Vercel, Express, Jest, Cypress, Flask, PostgreSQL, MySQL Workbench/Shell

Machine Learning: TensorFlow/Keras, NumPy, Jupyter Notebook, scikit-learn, Matplotlib

SOFTWARE ENGINEERING APPLICATIONS

Full-Stack Software Engineer (In-development) – [Mixit](#) (React, Next, TS, Vercel)

May 2023 - Current

Web-application dashboard of tools for Spotify that shuffles songs and playlists to create unique mixes

- Engineering a robust system design and enhanced user experience; targeting to support a potential 100,000 users
- Architecting data pipeline for fetching and validating Spotify API data to mix using Fisher-Yates-inspired shuffling algorithms

Full-Stack Software Engineer – [Drawtopia](#) (Express, Node.js)

Jan 2023 - May 2023

Anonymous location-based chatroom platform for drawing and sharing “Scribbles”

- Targeted creative and infrastructure direction for application for front and backend; resulting in 3rd “Best application” of 16 applications, as judged by a panel of industry professionals
- Architected a RESTful Express server and MySQL database for a fast and secure user experience; resulting in <500 ms web load times
- Increased team velocity by 25% and ensured timely delivery of sprint goals by managing project scope and conducting daily Agile standup meetings with 6 developers

WORK EXPERIENCE

NC-LSAMP Undergraduate Researcher – Forecasting Brain Data

Aug 2021 - Aug 2022

Investigated methods of human error detection and forecasting among a team of researchers

- Developed a multi-layered machine learning model (3D CNN + TDNN => DNN) to detect human mistakes from brain data with 99% accuracy
- Accurately predicted the presence of human mistakes up to 1 minute in the future with over 90% accuracy
- Spearheaded a 3-member team which focused on error forecasting; held weekly standup meetings to ensure timely completion of tasks
- Delivered a research poster presentation summarizing findings at UNC Charlotte’s Summer Research Symposium to 20 student, faculty, and industry researchers in machine learning

EDUCATION

The University of North Carolina at Charlotte – Charlotte, NC

May 2023

Bachelor of Science, Computer Science (AI, Robotics, Gaming)

Magna Cum Laude with Honors; University Honors Program Scholar and President (Jan 2022 - May 2023)