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, TailwindCSS, Bootstrap, Figma & Figma Prototyping
Backend: Next.js, NextAuth.js, Supabase, Express, Jest, Flask, PostgreSQL, MySQL Workbench/Shell, Render Cloud
Machine Learning: TensorFlow/Keras, NumPy, Jupyter Notebook, scikit-learn, Matplotlib

SOFTWARE ENGINEERING APPLICATIONS

Full-Stack Software Engineer (In-development) – Mixit May 2023 - Current
Web-application dashboard of tools for Spotify that shuffles songs and playlists to create unique mixes

- Engineering a robust system design through outlining server routes, database models, and TypeScript interfaces, classes, and types; targeting a system to support a potential 100,000 users
- Architecturing a custom Spotify API wrapper to allow for efficient requests to minimize rate limiting

Full-Stack Software Engineer – Drawtopia 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)