# Jose Level

Apple ICT 3 | FIU | BS in Computer Engineering 2020

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## Work Experience

### Apple | Software Engineer 3 — Oct 2022 - Present

- Developed software tools and infrastructure for Apple Watch touch stack, enhancing the Python API across touch and related algorithms. Designed streamers and data parsers to track key metrics from users, integrating the data into both SQL and NoSQL databases. Championed company-wide adoption of this infrastructure, significantly reducing the hours spent on weekly repetitive tasks across multiple teams.
- Designed the "In-Ear Detection" Python API for AirPods and Beats products. Managed data collection and analysis from five sensors across thousands of prototype devices to support algorithm development and user experience studies.

### Apple | Software Engineer 2 — Aug 2021 - Oct 2022

- Led automation strategy and feature demos to executives at new product reviews. Solo developed infrastructure for a variety of robotics fixtures for facilitating feature development.
- Engineered alerts for tracking sensitive error logs from field units and created a spec for data collection from various sensors in response to these triggers. Developed software to collect, tag, and clean this data.

### Motorola Solutions | Software Development — Jun - Aug 2020

- Resolved critical bugs and implemented new features on mobile radios in an Agile environment. Enhanced the build system to streamline the release of firmware and improve release safety.

### GE Appliances | Software and Electronics — Jan - May 2019

- Saved the company $100k+ per project by developing a software solution to interpret raw touch sensor data, and auto calibrate capacitive touch PCBs.

## Recent Projects

### Magazine API with CI/CD on Google Cloud Platform — Dec 2023 - Present

- Deployed a FastAPI and MongoDB-based API to provide a search tool for outfit inspiration from Drakes menswear magazine and store, enabling users to search and tag images, served in JSON format. Scraped images using BeautifulSoup and Selenium, and uploaded content to Google CDN for scalability and reliability.
- Implemented end-to-end continuous integration and deployment, incorporating automated testing with Pytest and PEP 8 adherence via GitHub Actions. Managed Docker container building and deployment using Google Cloud Build, Kubernetes Engine, and Google Cloud Run Service.
- Indexed and tagged image links within a MongoDB database, utilizing scaled hosting with Mongo Atlas servers. Streamlined the development pipeline to ensure efficient management of the entire operation, supporting the project's goal of delivering tailored looks and style inspiration to users.
- React Frontend deployed with Firebase.

### Social Meetup App with FastAPI and React — Nov 2022 - Present

- Created a web app to encourage spontaneous meetups by allowing users to share in-person activities with friends via a shared map, fostering real-life interactions without extensive planning. The backend, built with FastAPI and MySQL, uses JWT tokens for authentication and location mapping.
- Developed the frontend using React and Bootstrap, providing a clean and responsive user interface. Integrated Mapbox to display friends' activities on the map, enabling users to easily join groups.

### Using AI to Paint a Podcast — Oct - Nov 2022

- Developed a one click thumbnail generation web app to generate podcast thumbnails using Assembly AI's speech-to-text API to process podcast audio, and Stable Diffusion art generator API.