

Camilo Andrés Castrillon Calderón

Biomedical Engineer | Jr. Full Stack Dev

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Hi! There's a bit about me



Hello, I'm a 25-year-old biomedical engineer transitioning into software engineering. I'm passionate about technology and AI, proficient in Python, JavaScript, and TypeScript. I excel in teamwork, bring innovative perspectives, and have a strong drive for self-improvement. I'm a fitness enthusiast, fluent in English and Spanish, and always eager to evolve and make a positive impact

Work Experience



Deep learning model for Alzheimer detection

september 2020- july 2021 (Cali, Valle del cauca)

- Train and fine-tune deep learning algorithms to differentiate among different patient aging stages throughout Alzheimer Disease. Interpretability analysis implementation for graphical performance evaluation (Python, 3DSlicer, FreeSurfer, FSL)

Assistant medical imaging teacher:

september 2022- november 2021 (Cali, Valle del cauca)

- Medical imaging processing lessons for beginners with python from the medical imaging elective in Universidad Autonoma de Occidente

JavaScript Dev:

september 2021-currently (Cali, Valle del cauca)

- FastAPI/React fullstack app to automate filling out excel files for signing up new medical devices at a mid-size local company reducing time consumption from up to 3 min down to less than 45secs during this process
 - React native mobile Menu and order tracking app:
 - Repo: <https://github.com/ccastri/Deliveroo>
 - apk: <https://expo.dev/accounts/nocallerworld/projects/deliveroonew/builds/1fb2f8b0-33d4-4e1d-8cbb-5312ea47a72d>
- (React native, redux, firebase)

ThreeJS and React Three Fiber Scene for 3D knee prothesis visualization:

May 2022- Jul 2023(Cali, Valle del cauca - remote)

- A web based interface for rendering .stl or .gltf models. currently a .stl knee prothesis model has been deployed on the scene. Users can zoom-in, zoom-out move the model on either direction and even rotate it in all 3 axis. Also change its color
- <https://threejs-basics-sigma.vercel.app/>

*You can see more projects on github

Relevant Skills

- **JavaScript:**
 - Angular 2+, ExpressJS, NodeJS, NextJS, ReactJS, React Native, react three fiber
- **Python:**
 - Flask, FastAPI, Tensorflow-keras, pandas, numpy, SQLAlchemy
- **SQL databases:**
 - Postgresql, MySQL,
- **NoSQL databases:**
 - MongoDB, Firebase
- **Testing:**
 - Postman, Jest, Pytest

Education History



Secondary School

Comfandi Miraflores

september 2011- July 2015 (Cali, Valle del cauca)

- Software programming technician



B.S.E Biomedical Engineering

Univesidad Auotnoma de Occidente

- January 2016- November 2022 (Cali, Valle del cauca)

Courses, Awards, Affiliations, and Interests

- The front-end developer career path | SCRIMBA
- Angular avanzado: lleva tus bases al siguiente nivel MEAN | Udemy
- Workshop in applied statistics and datascience| Universidad Tecnológica del Caribe (Colombia)
- Poster SIPAIM-SIIM joint conference | SIPAIM- 2021
- National research seedbed participation| RedColsi - 2021
- HL7 Colombia: Introduccion a la interoperabilidad y uso de estan

Languages

- Spanish - **native**
- English- **C1**