ALESSANDRO BELAJ

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EDUCATION

Full Stack Software Engineering Boot Camp, GPA: 4.0/4.0   May 2022
Columbia University
B.E Mechanical Engineering   May 2021
City College of New York Grove School of Engineering

EXPERIENCE

Unique Electric Solutions   June 2019 - May 2021
Mechanical Engineering Intern
- Refurbished UPS trucks diesel engines to fully electric power
- Maintained SolidWorks designs/drawings for harness vendors
- Populated electrical hardware and wiring on chassis
- Facilitated rapport with vendors and maintained BOM and quality control

The Zahn Innovation Center   June 2018 - June 2019
Lead Manufacturing Engineer
- Fast-paced cohort using computer-aided design to manufacture prototypes for various start-ups
- Utilized additive/subtractive manufacturing and heavy machinery to release products and meet deadlines
- Created Statement of Work/Request and Maintained BOM for clients

PROJECTS

The Food Conch
Application which suggests recipes based off of user cuisine preferences or suggests restaurants based off of the users location.
Utilized Google Maps Platform API to fetch restaurant data based on zip code.
- Used the Materialize CSS framework to create a clean and friendly user interface.

Gym Quest
Collaborative full stack fitness social media application where users can comment and interact on specific workouts
- Designed and implemented UI design with Figma and Vanilla CSS.
- Developed API routes using Express.JS, bcrypt for password encryption and mySQL.

Social Que
Social Media backend where users can create an account, comment a thought, post reactions, and add friends
- Utilized Mongoose ODM to model application data stored on MongoDB Atlas.
- Exposed application data using REST API for UI consumption.
- Utilized Insomnia to test API routes.

ORGANIZATIONS

CCNY Racing (BAJA SAE)
Vice President
- Utilized Lotus Suspension Analysis techniques to develop lightweight rear suspension for off road vehicles.
- Utilized rapid prototyping techniques and iterate on vehicle suspension to optimize for off-road mobility.

SKILLS

Languages   HTML, CSS, Javascript, NodeJS, Mongodb, python,
Tools   Git, MongoDB Atlas, AWS, Figma, Unix, Insomnia
Frameworks   React, Mongoose, Express, Bootstrap