ALESSANDRO BELAJ

abelaj7196@gmail.com | https://www.abelaj.com | https://github.com/AlessandroB96 | https://www.linkedin.com/in/alessandrobelaj/

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, Java, Mongodb, Python
Tools	Git, MongoDB Atlas, AWS, Figma, Unix, Insomnia, VS Code, IntelliJ
Frameworks	React, Mongoose, Express, Bootstrap