

# JERILENE L. MEDRANO

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## SKILLS

- LANGUAGES : JavaScript | TypeScript | C++ | C | Python | HTML | CSS | SQL
- FRAMEWORKS / TECHNOLOGIES: MongoDB | Express.js | React.js | Node.js | Material UI | Stripe | Socket.IO | Docker | Kubernetes
- TOOLS: Git | Linux | Windows | Arduino | GCC | GDB | Bash

## SOFTWARE PROJECTS

**TATTOO ART** – A tattoo design contest website

*Tech Stack: MongoDB, Express.js, React.js, Node.js, Stripe, Socket.IO, Material UI, Amazon S3*

- Built the payment system that uses Stripe for adding and selecting payment methods and charging based on set contest prize once a winner had been selected.
- Created the Notification system that uses Socket.IO for triggering notification creation on design submission and fetching live notifications.
- Used Material UI in creating components and pages that faithfully replicate available design spec.

**CleanIntubate** – An automated, portable medical disinfection device

*Tech Stack: Arduino / C++*

- Built the fluid, temperature and UV control system using Arduino and component libraries.
- Created the User Interface which supports mode selection, custom input, and progress display.

**sfor** – A script for multi-word search in a directory

*Tech Stack: Python, Bash*

- Employed inverted indexing and stopwords filtering for fast full-text searching.
- Added index-freshness check, AND/OR search modes, and document retrieval functions.

## PROFESSIONAL EXPERIENCE

Product Design Engineer | University of the Philippines (06/2020) – (11/2020)

- Designed and led the development of the first prototype of CleanIntubate which achieved equivalent efficacy as the manual disinfection process.

Client Support Specialist | IBM (03/2019) – (06/2020)

- Automated the Excel inventory pre-processing for pricing requests using Visual Basic.
- Documented and provided detailed job aids for Sales Support processes.

Customer Support Representative | TaskUs (03/2018) – (03/2019)

- Resolved customer issues from user interface to regulatory issues for a cryptocurrency platform.
- Handled priority tickets related to compliance, fraud, and new rollouts with accuracy.
- Helped the team with handling obscure and technical cases.

## EDUCATION

Numerical Methods in Engineering Course | University of the Philippines

Introduction to Computer Programming Course | University of the Philippines

BS MATERIALS ENGINEERING | University of the Philippines