Fanny Chen

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https://fannychen623.github.io/
Fanny-Chen-Digital-Portfolio/

Education

The Cooper Union for the Advancement of Science and Art, New York, NY
2017 - 2021
Major: Chemical Engineering
Minor: Humanities and Social Science
Major GPA: 3.7

Columbia Engineering Coding Boot Camp, New York, NY
2022 - 2023, Final Grade: A+

Work Experience

Physicist I
Memorial Sloan Kettering Cancer Center, New York, NY
August 2021 - Present
-Created an electronic database that tracks lifetime radiation dose to staff members from 1947 to present.
-Worked with the developer team to create a web/iOS application that is used to track patient treatment details
-Worked with the developer team to create an application to submit requests and inventory radioactive waste.
-Upgraded internal systems to increase efficiency by over 100%.
-Work with the Epic team to assist in the transition from the old healthcare system.
-Provide patients, doctors, and staff members safety guidelines, and training regarding radiation exposure
-Conduct research and analysis pertaining to radionuclide cancer treatments (2 publications)

Production Engineer, Regulatory Assistant, Quality Assurance & Packaging Intern
L&Z US Inc., Norwood, NJ
2019 - 2021
-Communicated with different teams to assist in FDA validation process/ paperwork filing
-Trained in cleanroom protocols, tested product packaging, and validated sub-parts

Quality Engineer Intern
Aerco, Blauvelt, NY
Summer 2020
-Developed a electronic system tracking real-time data for the fabrication and testing of an entire product line
-Automated graphics development for data analysis (reduced time spent on data-mining by over 70%)
-Developed a system to track and generate reports of testing and calibration data

Other work experiences
-Teacher's Assistant & Assistant at the Office of Admissions, 2020 - 2021
The Cooper Union, New York, NY
-Clerical Assistant, Receptionist, & Translator, 2016 - 2018
New York Hearing Center, Brooklyn, NY & New York, NY

Projects

Full Stack Developments
Columbia Engineering Coding Boot Camp, Winter 2022- Spring 2023
-**Step It Up**: A react application where users can create an account to track their workout routines, weight, and caloric intake.
>Create unique routines, schedule and complete routines, track weight and calorie progress over time, view and share routines and thoughts, and much more.
-**Share A Byte**: A node.js application where users can create and share unique recipes.
>Use AI to create unique recipes, add images to recipes, view, search, and favorite recipes by others, and much more.

SARS-CoV-2 Vaccine Manufacturing Facility
Senior Design Project, Spring 2021
-Worked with a team to design a pilot sized manufacturing facility for the production of the SARS-CoV-2 adenovirus vaccine
-Conducted cell culture study, manufacturing/operational processes research, safety evaluation, and cost analysis

Hydrotherapy Hand Massage
Invention Factory, Summer 2018
-Filed a provisional patent application for a working prototype after 6 weeks
-Presented weekly to professionals in the industry, researched patents, prior arts, FDA eligibility, and cost efficiency.

Affiliations

American Institute of Chemical Engineers (AIChE): University President & Regional Liaison; Society of Women Engineers (SWE): Vice President; Chemist Club, Society of Asian Scientist and Engineers (SASE), South Asian Society (SAS): Member

Skills

-Certifications: Full Stack Developer, AutoCAD Certiport, Microsoft Technology Associate Networking Fundamentals
-Computers: Javascript (react, webpack, node), Python, MatLab, & Microsoft VBA; Microsoft Office (Excel, Word, PowerPoint, Outlook, SharePoint, OneDrive, Teams), Google Drive, Adobe, SolidWorks, Spartan, Aspen, Power BI, SuperPro
-Languages: Chinese (Fluent, Read & Write), Korean (Intermediate), Spanish (Beginners), Russian (Beginners)