Christopher Kong

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Skills

Laboratory

- Peptide Synthesis
- Instrument Analysis
- Aseptic Techniques
- Protein Design
- Sample Purification
- Enzyme Assays

Programming

- Data Historian
- Web Development
- Scripting Languages
- Ladder Logic
- Scripting Languages
- Server Management

Education

University of North Carolina at Chapel Hill (UNC) Aug. 2018 – May 2022

B.S. Biochemistry & B.A. Computer Science, Neuroscience Minor

- Phi Beta Kappa

Work Experience

Pfizer | Automation System Analyst Apr. 2023 – Current

- Integrated monitoring of approximately 90% of current site equipment utilizing programmable logic controllers (PLCs) through OSIsoft PI System tools
- Adhered to FDA cGMP regulations through project development and preventative measures per standard operating procedures
- Maintained communications with other departments to ensure minimal impact to quality

Jin's Hibachi and Chinese | Web Developer & Server Aug. 2014 – Dec. 2022

- Developed an interactive website using JavaScript and HTML/CSS per client's request
- Employed as a server previously (4 years)

Research Projects

Cationic Caged Peptide Design Project | DeGrado Lab (UCSF) Aug. 2022 – Jan. 2023

- Designed *de novo* proteins for caged cationic conformations as potential therapeutic agents using *in silico* experimentation for simulating protein folding
- Determined optimal sequence residues through structure prediction and machine learning models: ColabFold and Rosetta Commons

Drug Delivery Project | Lawrence Lab (UNC) May 2021 – Jul. 2022

- Tested TPA concentration of internally loaded red blood cells using ELISA assays
- Synthesized various melittin inhibitor analogues and therapeutic oligopeptides
- Quantified peptide fragments using LC-MS and UV-Vis/Fluorescence spectroscopy

Virtual Reality Safety Project | Lawrence Lab (UNC) Aug. 2020 – Jul. 2022

- Built a virtual environment to teach laboratory safety using the Unity Web Engine
- Collaborated with Ghostpunch Games, LLC and UNC Eshelman School of Pharmacy
- Gathered user experience data for article published in Journal Chemical Education (DOI: acs.jchemed.2c00096) under mentorship of Dr. David Lawrence at UNC-CH