Ku Kim

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Education

University of California, Berkeley GPA: 3.62

Bachelor's degree, Molecular and Cell Biology 2018-2019

University of California, San Diego GPA: 3.87

Bachelor's degree, General Biology 2016-2018

Single Bachelors Degree obtained from UC Berkeley on 12/20/19*

Work Experience

Research Associate | Zymo Research Corp (February 2020 - Nov 2020)

- Research and Development of Zymo's urine nuclease stabilizing reagent
  - Creating data sheets, protocols, and conducting experiments for clinical applications
- Extraction of nucleic acids and quantification of human saliva and urine samples

Research Associate | Promis Diagnostics (December 2020 - Current)

- Development of colorectal cancer, UTI, and bladder cancer assays
  - Experimental design and planning, data analysis, and documentation to satisfy CLIA and CAP requirements
- Engineering automated methods for accessioning, liquid handling, and extraction

Programming Experience

- Kingfisher Flex (Thermofisher BindIt Software) - developed protocols for automated urine extraction in 24 and 96 well formats
- (**Python**) Hamilton Starlet - fully automated PCR plating for a UTI assay consisting of a 16 pathogen panel (10 and 5ul rxn vol) on 384-well plates
- Microsoft Power-automate - streamlined accessioning of patient information and test-result delivery through Twilio and Bitly
- Created canvas apps for covid collection sites which collects patient data into the lab database
- Engineered flows for automated notifications to patients of the location of their sample and sample status
- (**Javascript**) Satirical questionnaire that counts the total number of checked boxes, and uses sessionStorage to give a total tally with a comment on a separate page
- (**HTML and CSS/Bootstrap**) Creating web page for Zymo's PrecisionBiome service

Languages: **Power Fx**(used in Microsoft Power Platform), **Python**(Hamilton Star and Hamilton Starlet), **HTML CSS/Bootstrap, Javascript**