Krishnan Nair

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CAREER OBJECTIVE

To secure a challenging position within a world class organization where my demonstrated skills in programming, as well as other technical and analytical skills will be used achieving the company's goals and objectives in developing solutions to modern health problems.

EDUCATION

University of Delaware, Newark, DE

Bachelor of Biomedical Engineering, University of Delaware

GPA: 3.6/4.0 December, 2020

SKILLS

- Skilled in Python, MATLAB, and Java programming languages
- Experience using Pandas, NumPy, SciKit, TensorFlow, and Facebook Prophet Python Packages
- Advanced in HTML/CSS/JavaScript/jQuery/Bootstrap web development
- Intermediate in SQL and Firebase database management
- Proficient in Microsoft Office (Word, PowerPoint, Excel), Image J, and JMP Pro statistical analysis
- Experienced in Algodoo, Arduino, SolidWorks and AutoCAD engineering software
- Excellent interpersonal and communication skills

EXPERIENCE

GlaxoSmithKline (GSK), Upper Providence, PA, *DMPK Modeling Intern* June-2020-August 2020

- Developed human clearance model using Well-Stirred Model Equation from in-house IVIVE data
- Analyzed model performance using fold-analysis and compared against ML QSAR model predictive parameters
- Upgraded CPMS and Modeling & Simulation pages on DMPK Wiki using Python web scraping

Singh Lab, Newark, DE, *Undergraduate Researcher* November 2019 – February 2020

- Developed model of inhibitory neuronal pathway in the brain using Python
- Built Python simulation of leaky-integrate-and fire circuit using two neurons with stochastic noise and Poisson stimuli

Fulton Bank, Newark, DE, *Seasonal Intern* June 2017-August 2019

- Provided account services to customers, refer customers to financial service products
- Operated Fiserv teller computer program, directed and trained new employees on banking and computer programs

RELEVANT COURSEWORK AND PROJECTS

BMEG 330, *Biomedical Instrumentation Lab*

- Designed circuits that amplified or filtered electrophysical signals such as EMGs and ECGs

ELEG 305, *Signals and Systems*

- Studied common signal concepts such as discrete systems, impulse response, convolution, and Fourier Transforms
- Modeled acoustic sounds from concert hall using Python signal processing

PROJECTS

- Coded and designed Twenty-Eight user interface game using Java
- Designed a simulation for HIV drug-therapy using MATLAB.
- Developed job interview question website using HTML/CSS/JavaScript and Firebase

CAMPUS & VOLUNTEER INVOLVEMENT

Assistive Medical Technology (AMT), Newark, DE, Committee Member September 2019-Present

- Disabilities advocacy group that provides low cost technological solutions to members of the Newark community
- Worked with team in adjusting toy car to accompany growing child with down-syndrome, rewired power controls using circuit components and Arduino, physical modifications using manufacturing machine shop.