

Related Experience

QA/Development Engineer

National Board of Medical Examiners | Apr '18 - Sept '18

Created and executed automated software test plans, cases, and scripts using Java and Selenium to uncover, identify, and document software problems and their causes

Documented software defects using bug tracking system (JIRA) and reported defects involving program functionality, output, and UI to developers in an Agile environment

Developed software using Python to automate writing automation scripts

Research and Development Engineer

Geometric Biomedical Computing Group | Apr '17 - Sept '17

Constructed deep learning algorithm and classifier using MATLAB and Python in order to classify images pixel-wise with an end goal of building a benign/malignant tumor classifier

Developed additional algorithms and software using MATLAB and Python in order to solve geometry-related computing problems for breast cancer tissue

Designed and build an optical spectrometer using an Arduino and photo resistor to automatically calibrate computer monitor intensity

Installed and maintained multiple Linux OS as well as interfaced with high performance computing cluster
Interfaced with veteran pathologist to solidify biological information

Application Engineer

IFM Efector | Sept '15 - Mar '16

Consulted via email, phone, and face-to-face for customers on automation of manufacturing processes using IFM's electronic sensors, cameras, and industrial networking devices

Developed and designed hands-on electronic devices for use in employee training, specifically for optical and flow sensors

Conducted extensive periods of in-depth technical evaluation of customer's processes and systems

Other Skills

Selenium, WordPress OpenCV, Spanish, Solidworks, Creo Parametric, AutoCAD, Google SketchUp, Microsoft Office, 3D printing, Arduino, LabVIEW, Multisim, VHDL, Linux, Mac, Windows, rock climbing

Education

Drexel University

Bachelor of Science in Computer Engineering
Minor in Electrical Engineering

Philadelphia, PA
Sept '14- June '19

Shanghai Jiao Tong University

Author on research paper of patent invention for Corona aided catalytic converter

Shanghai, China
Sept '17-Jan '18

Computer Language Skills

Python



C++



Java



MATLAB



C#



JavaScript



HTML/CSS



Additional Experience

Freelance Website Developer/Designer

www.pages.drexel.edu/~dbj27/Freelance | Sept '17 - Present

Collaborated with clients to design, develop, and maintain websites using WordPress and static files

Developed user-friendly architectures by programming site navigation, social media links/widgets, and organizing site content into a logical catalog

Validated site by testing JavaScript, Flash, CSS, and HTML codes to ensure cross-platform compatibility

Maintained websites by updating content, implementing new technology, and drastically improving performance

Responsible for overall web project management from design to execution and maintenance

Drexel Co-founder/Vice President

Caleb's Foundation: Pennies from Heaven | Oct '14 - Aug '17

Reached out to companies asking for sponsorship for the annual blind auction

Supported charity headquarters by assisting in running annual auction.