Nicholas Bely

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https://github.com/nbely/

**Profile**

An engineer with 6 years of diverse experience looking to transition from a controls to software development role; seeking full time internship or employment opportunities in development to grow a quickly expanding set of skills, take on new challenges, and contribute to a growth-focused team.

**Technical Skills**

* Programming Languages: Javascript, Typescript, Python, Java, Vb, C/C++, Arduino, LabVIEW, MATLAB, R, HTML/CSS
* Other Software Tools/Skills: Angular framework, React Library, .NET Framework, Git, Mongoose/MongoDB/NoSQL, Node.JS, Machine Learning, SCRUM framework
* IDE’s: Microsoft Visual Studio, Visual Studio Code, Atom
* Other Skills & Traits: Team-based Communication, File-Version Control, Working with Client Specifications, Detail-oriented, Quick to Learn, and Adaptive

**Software Project Experience**

Comau LLC

Front-End Development Intern; January 2021 – Present

* On a voluntary basis, working with digital products team to create custom summary dashboard for Angular web application utilizing ngx-admin open-source template and plotly graphing library.

Turq-Bot: Discord RPG Project

Project Manager, Lead Developer; June 2020 – Present

* Started Node.JS team-based project on github to turn fanmade text-based game into an interactive and fullscale automated game on a Discord server via the Discord API.
* Leading project architecture design and design meetings, developing main program with user command fetch protocol and command scripts with integrated UI/UX design. Assisting with development of web-app w/ React framework for user profile display and designing Mongoose schemas for MongoDB no-SQL database game and user data storage.

JPMorgan Chase Virtual Experience

Program Participant; November 2020; 10 Hours

* Participated in the open access JPMorgan Chase Virtual Experience Program with Forage.
* Tasks Completed:
  + Interfaced with a stock price data feed via Git and Python to fix broken script components, generate a patch file, and conduct unit testing via a test script.
  + Updated a client-side web application utilizing a React library via Typescript to convert a static stock comparison graph to continuous rendering with aggregation of duplicate data.
  + Finalized updates to a client-side React application via Typescript in which a simple stock comparison was switched to a correlation ratio with a trigger alert for exceeding set bounds.

**Software Certifications**

Udemy Certifications: Angular – The Complete Guide (In Progress)

* Working towards completion of full Angular mastery course. Learned content inclusive of: Angular 11 basics w/ components/databinding, custom directives, services, observables, forms, and pipes.

Coursera Certifications: UofM Python for Everybody Specialization

* Programming for Everybody (Getting Started with Python)
* Python Data Structures

**Other Professional Experience**

Comau LLC

Automation Systems; Controls Engineer; November 2016 – Present

* Supported electrical and pneumatic hardware design and installation support efforts in three different Powertain and one Body-in-White assembly lines from OEM’s inclusive of Ford, FCA, and Lucid.
* Oversaw successful integration of vendor equipment by organizing vendor quotes and lineups, pushing design reviews and material procurement, and handling urgent problem resolution.
* Worked occasionally on updating in-house AutoCAD and Excel tools using the built-in VBA editor, and took a couple courses on the basics of Rockwell PLC ladder logic software design.

Key Safety Systems

Active Safety Department; Co-op Engineer; May 2016 – November 2016

* Designed a proof of concept testing apparatus for infrared facial recognition including: NX CAD design, hardware integration, prototyping, and software development.
* Configured autonomatronic head movement tests via an Arduino serial interface, acquired and processed data in Visual Studio with C before delivery to facial detection algorithm.

Functional Optical Imaging Lab

Wayne State University; Lead Programmer; November 2014 – May 2016

* Contributed extensively to software, electrical, and mechanical development of two cutting edge microscopy systems in a new research lab
* Led development of multiple LabVIEW programs featuring producer/consumer queue architectures for handling real-time data acquisition and image processing of a photoacoustic microscrope.

**Education**

BS, Biomedical Engineering with University Honors Graduated - May 2016

Wayne State University, Detroit, MI