

Joel D. Turk

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EDUCATION

UNIVERSITY OF DELAWARE 2020 - Present
Bioinformatics Data Science PhD Student
Research Assistant in the Neunuebel Neuroscience Lab – Neural Coding of Social Information

UNIVERSITY OF DELAWARE 2016 - 2020
Computer Science, Honors BS with Distinction
3.842 GPA; 3.942 Major GPA; Dean's List all semesters
Minors in Computational Biology, Biology, and Mathematics
Senior Thesis: *Web Server for Plasmodesmal Localization Prediction*
Study Abroad in Christchurch, NZ: Taught Unity game development camp for ~20 middle/high schoolers
1-year member of Club Cross Country; 3-year member of Club Triathlon; Ran a 3:27 marathon

EXPERIENCE

Newark, DE **UNIVERSITY OF DELAWARE** May 2019 – Sept 2020
Researcher

- Wrote Python and C scripts to process data for use with different machine learning tools
- Parsed and summarized cutting edge research papers to validate and compare results
- Developed a public web server for predicting protein localization to plasmodesmata

Wilmington, DE **AGILENT TECHNOLOGIES** May 2018 – Dec 2018
Software Engineering Intern

- Developed firmware for the User Interface of a Gas Chromatograph System using Qt Creator (C++) in a Linux environment
- Developed backend for a web application in Visual Studio Code (JavaScript) with a Sencha Ext JS framework

Wilmington, DE **DUPONT EXPERIMENTAL STATION** May 2016 – August 2016
Industrial Biosciences Intern

- Developed software from scratch to help biologists analyze enzyme site evaluation library data
- The tool created a sequence logo-type graphic to show assay performance of specific enzyme variants by fetching data from excel sheets

PROJECT/VOLUNTEER EXPERIENCE

Newark, DE **INDEPENDENT NURSE PRACTITIONER** Sept 2019 - Present
Virtual Clinic

- Designed and developed a virtual visit system for an independent health clinic
- Collaborating with teammates and client in an Agile software development environment

Newark, DE **CS + SOCIAL GOOD CLUB** Aug 2019 - Present
Housing Market Web Service

- Working to create a web service for those looking for off-campus housing at our University
- Collaborated with other members to implement an organizational structure for team-based development

Newark, DE **UD CLUB TRIATHLON TEAM** Aug 2017 – May 2018
Public Relations Chair

- Moderated several team social media accounts
- Designed, ordered, sold, and distributed team apparel for over 50 team members

TECHNICAL STRENGTHS

- **LANGUAGES:** C, C++, C#, Java, Python, JavaScript (vanilla, MEAN stack), SQL, MongoDB, PHP, Perl
- **IDE:** Visual Studio, Eclipse, Android Studio, Qt Creator, SQL Workbench
- **VERSION CONTROL:** Command line Git, GitHub
- **Other:** Linux, Microsoft Office Software, Final Cut Pro, Adobe After Effects, Illustrator, and Photoshop