

Daniel White

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EXPERIENCE

Production Scientist II

November 2014-Present

Integrated DNA Technologies

- Synthesizes, purifies and performs quality control sampling and analysis on DNA oligonucleotides for academic and industrial use (1000+ sequences analyzed per day).
- Developed a GUI JavaFX application to streamline a quality control process that gives manufacturing a visual way of passing/failing final product and decreases the overall process time of final product by 50%.
- Designed a Python tool that creates aggregate files by combining multiple raw data files effectively reducing QC sampling time.

SOME PERSONAL PROJECTS

Node.js Web Application

Website: <http://54.183.223.106/>

Code: <https://github.com/whitedann/pilcrow-web>

I built a web application with a RESTful API using the express.js server framework and data persisted using MongoDB. The website UI is rendered using both a templating engine for basic HTML elements as well as ReactJS for the dynamic parts. All of these components are served on an EC2 AWS instance using NGINX.

Python ODE Animator

Document: danny-white.com/projects/pendulums

Code: <https://github.com/whitedann/pendulumSimulations>

I used Python and NumPy to numerically solve a system of differential equations (ODEs) for three different pendulum systems and animated them using the Matplotlib library.

2D Java Game

Document: danny-white.com/projects/game

Code: <https://github.com/whitedann/LastCircle>

A simple 2D game made with the Java programming language. It includes a set of tools to generate levels and enemy spawn patterns using text files.

EDUCATION

University of California, Santa Barbara

September 2009-June 2013

Bachelor of Science, Physics

Took a combination of physics and electronics courses with supplemental classes in C, MATLAB and Python programming.

San Diego State University

August 2017-Present

Post-Baccalaureate, Computer Science

Currently taking computer science courses in data structures, algorithms and programming languages.

SKILLS

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| • JavaScript (Node.js, React, Express.js, jQuery) | • Web Server Hosting (NGINX, Amazon AWS) |
| • Java (JUnit, Maven, JavaFX, Apache POI) | • UNIX Shell Scripting |
| • Python (NumPy, SciPy, Matplotlib) | • Git |