

Daniel White

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SKILLS

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| <ul style="list-style-type: none">• JavaScript (Node.js, React, Express.js, jQuery)• Java (JUnit Testing, Maven, JavaFX)• Python (NumPy, SciPy, Matplotlib) | <ul style="list-style-type: none">• Web Server Hosting (NGINX, AWS)• Databases (NoSQL, MongoDB)• Git• Bash/Unix Scripting |
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SOME PERSONAL PROJECTS

Node.js Web Application

Website: <http://54.183.223.106/>

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

- A web application with a RESTful API using the express.js server framework and MongoDB.
- The UI is rendered using both a templating engine as well as ReactJS for the dynamic pages.
- Served on an EC2 AWS instance using NGINX.

Python ODE Animator

Document: danny-white.com/projects/pendulums

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

- Uses NumPy and SciPy Python libraries to numerically solve a system of differential equations
- Animated using the Matplotlib Python library.

2D Java Game

Document: danny-white.com/projects/game

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

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

WORK EXPERIENCE

Production Scientist II

November 2014-Present

Integrated DNA Technologies

- Developed a Java application to streamline a manufacturing process by providing associates a way of visually inspecting results and making pass/fail judgments of final product. 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.
- Synthesizes, purifies and performs quality control sampling and analysis on DNA oligonucleotides for academic and industrial use (1000+ sequences analyzed per day).

EDUCATION

University of California, Santa Barbara

September 2009-June 2013

Bachelor of Science, Physics

Physics degree with emphasis in computer science and engineering (C, MATLAB and Python).

San Diego State University

August 2017-Present

Post-Baccalaureate, Computer Science

Computer science courses in data structures, algorithms, programming languages, software development.

