

# Daniel White

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[whitedann.github.io](http://whitedann.github.io)

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## EXPERIENCE

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### Production Scientist II

*November 2014-Present*

#### Integrated DNA Technologies

- Developed a GUI JavaFX application to streamline a quality control process that gives employees 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.
  - Synthesizes, purifies and performs quality control sampling and analysis on DNA oligonucleotides for academic and industrial use (1000+ sequences analyzed per day).
  - Maintains and troubleshoots lab machines (HPLC Systems, Mass Spectrometers, DNA Synthesizers).
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## EDUCATION

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### 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 and Python programming.

### San Diego State University

*August 2017-Present*

#### Open University, Computer Science

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

GPA: 3.65

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## PERSONAL PROJECTS

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### Python ODE Animator

<https://whitedann.github.io/animations.html>

I used Python and NumPy to numerically solve a system of differential equations for three different pendulum systems and animated them using the Matplotlib library. The program allows you to easily specify the initial conditions and save the animations as .MP4 videos.

### 2D Java Game

<https://whitedann.github.io/LastCircle.html>

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

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## SKILLS AND FRAMEWORKS

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- Python (NumPy, SciPy, Matplotlib)
- Java (JUnit, Maven, JavaFX, Apache POI)
- HTML/CSS
- JavaScript (jQuery, Ajax)
- Unix Shell Scripting
- Git/Version Control