John Smith

(999)-999-9999 – email@gmail.com – mywebsite.com

SKILLS

- **JavaScript** (Node.js, React, Express.js, jQuery)
- **Java** (JUnit Testing, Maven, JavaFX)
- **Python** (NumPy, SciPy, Matplotlib)

- **Web Server Hosting** (NGINX, AWS)
- **Databases** (NoSQL, MongoDB)
- **Git**
- **Bash/Unix Scripting**

PROJECTS

Node.js Web Application

Website: website-link.com
Code: github-link.com

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: link-to-write-up.com
Code: link-to-github-project.com

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: link-to-write-up.com
Code: link-to-github-project.com

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.

WORK EXPERIENCE

Biotech Position II   *November 2014-Present*
Biotech Company

- 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. These are preliminary to a master's degree program in Computer Science.