

DominicSilva



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Bachelor of Engineering
Engineering Science



Stony Brook University
August 2014

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DEVELOPED

LEARNED

USED

Game Dev

Several arcade games such as Asteroids, 2048, and Pong through Coursera online program

Basic game design patterns, mechanics, simple AI, user interaction, and graphics rendering

Python | C# | Java
Photoshop | Illustrator
Microsoft XNA

Personal Website

A personal website to showcase photography & projects portfolios using a RESTful backend

Frontend/backend relationship, databases, server requests, JSON, AJAX, DOM, and simple web design principles

Java
Apache Tomcat | MySQL
REST API | Spring Framework
HTML5 | CSS3 | Javascript
jQuery | Photoshop | Illustrator

Hackathon Project: Gabble

A campus based social app designed to unite two strangers looking for company during a meal | Won 'best app' for feasibility and overall design

Software development work flow, basics of iterative development, brainstorming & team collaboration techniques, and proto-typing

Marvel App
Power Point
Photoshop | Illustrator

Self Study

An understanding of fundamental computer science, web, and game development concepts & principles

OOP, polymorphism, abstraction inheritance, encapsulation algorithms, data structures, and design patterns

Various online courses through Coursera, Udemy, & YouTube Books | Blogs | Stackoverflow Colleagues in industry

EXPERIENCE

STONY BROOK SOLAR BOAT Engineer | Treasurer

October 2012
-
June 2014

Worked on various subsystems of boat including the drivetrain, hull, and solar array

Assisted in metal fabrication of mechanical components and carbon-fiber fabrication of boat hull

Designed mechanical components using CAD

Organized budget, carried out purchase orders, and contacted sponsors

POWELL ENERGY & SOLAR Intern

July 2013
-
September 2013

Calculated orientation, size, and price of solar arrays

Participated in residential energy audit and installation/repair of solar array

Designed solar arrays using CAD

Organized customer accounts, appointments quotes, proposals, and dates

INTERESTS



RECOGNITION & AWARDS

2014 | Stony Brook University
Novelty and application of senior design project

2014 | Solar Spash Inc.
Intercollegiate Solar Boat World Champions

2011 | Stony Brook University
Best design for more energy efficient and ergonomic quad building